

## Pantheon Report

Generated at 2018-05-24 17:26:02 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

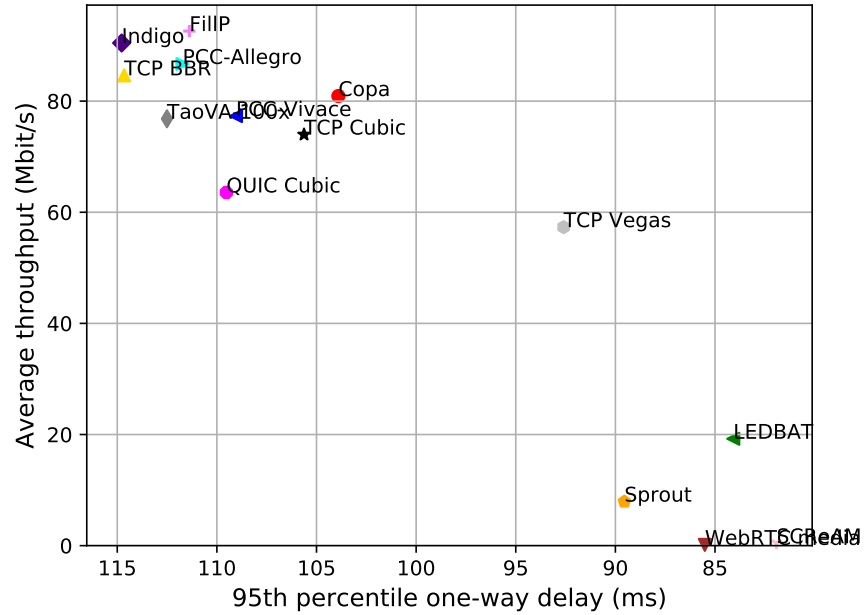
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

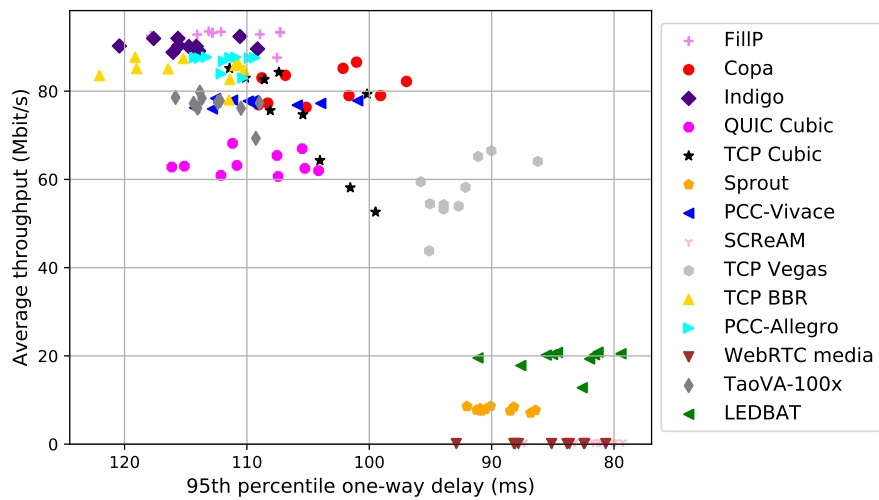
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS Brazil 2 to Colombia, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 2 to Colombia, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	52.64	36.04	24.04	113.27	112.55	111.97	8.41	11.94	13.65
Copa	10	57.51	27.05	16.22	105.10	102.21	99.11	1.67	0.63	0.29
TCP Cubic	10	40.98	34.88	29.39	103.33	106.64	106.58	0.44	0.67	1.01
FillP	10	60.38	37.34	22.39	110.79	109.70	108.66	17.27	20.49	20.07
Indigo	10	61.45	30.73	26.96	113.34	114.40	113.94	6.98	19.38	40.19
LEDBAT	10	12.63	7.89	4.14	83.48	84.31	83.34	0.01	0.02	0.01
PCC-Allegro	10	74.96	13.64	8.07	111.49	112.39	112.79	3.01	4.52	5.58
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	49.07	14.86	14.14	109.96	108.11	105.22	0.87	0.45	1.88
SCReAM	10	0.21	0.22	0.22	81.75	80.26	80.26	0.00	0.00	0.00
Sprout	10	4.18	4.12	3.05	89.44	88.82	89.42	0.00	0.00	0.00
TaoVA-100x	10	48.02	30.72	25.38	112.20	112.61	113.35	4.20	8.42	10.15
TCP Vegas	10	26.11	30.83	32.11	92.56	93.33	94.28	0.66	0.58	1.65
Verus	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Vivace	10	65.32	14.03	8.05	109.26	107.00	106.67	0.32	0.62	0.93
WebRTC media	10	0.05	0.04	0.04	84.83	84.14	84.25	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-24 14:09:48

End at: 2018-05-24 14:10:18

Local clock offset: -3.034 ms

Remote clock offset: 7.574 ms

# Below is generated by plot.py at 2018-05-24 17:10:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 122.040 ms

Loss rate: 12.61%

-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 122.102 ms

Loss rate: 10.36%

-- Flow 2:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 114.854 ms

Loss rate: 15.25%

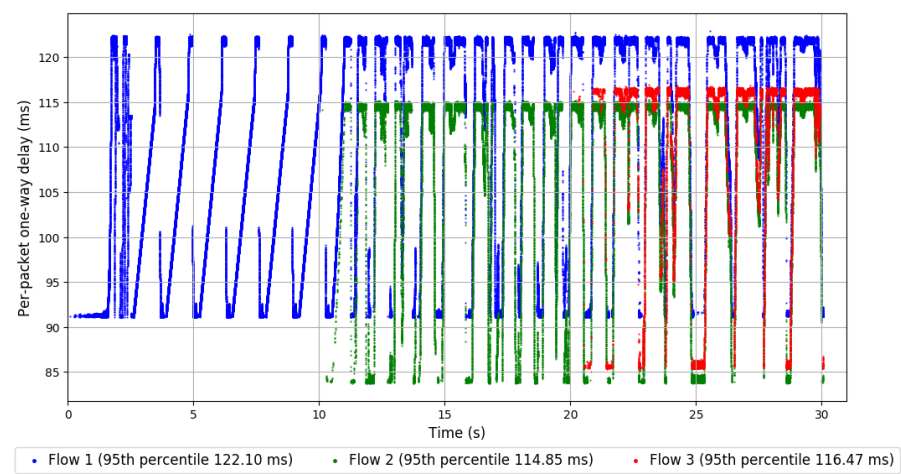
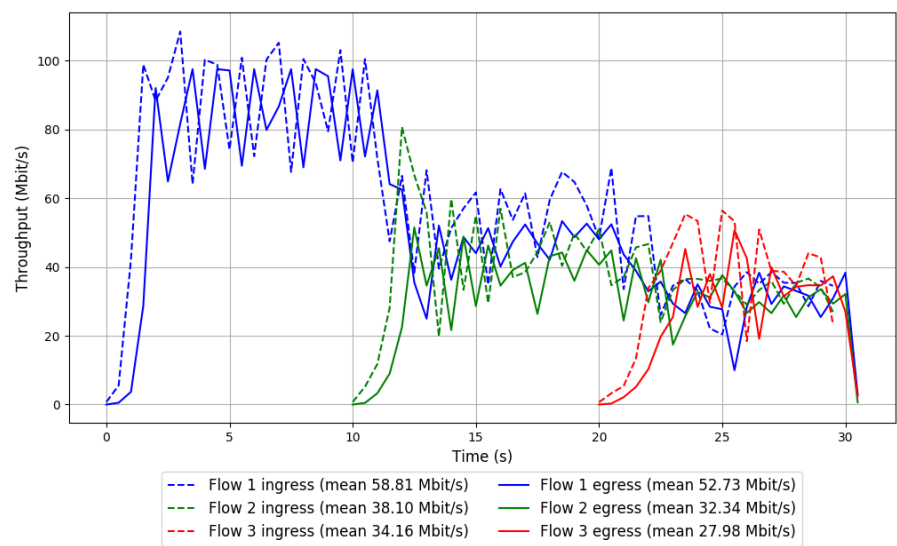
-- Flow 3:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 116.472 ms

Loss rate: 18.33%

Run 1: Report of TCP BBR — Data Link

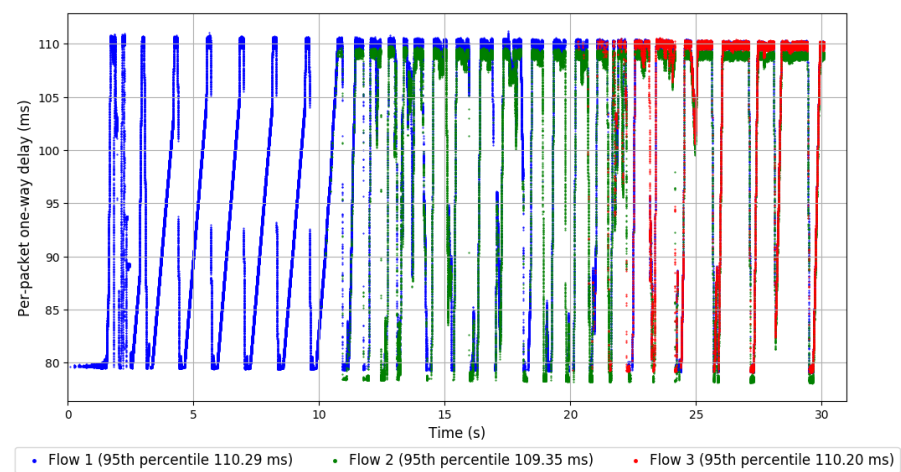
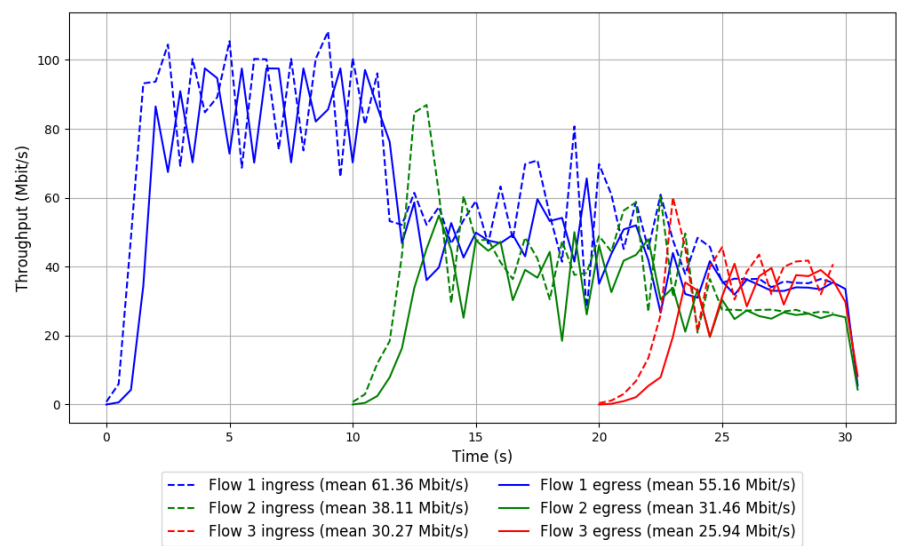


Run 2: Statistics of TCP BBR

Start at: 2018-05-24 14:29:28  
End at: 2018-05-24 14:29:58  
Local clock offset: -1.228 ms  
Remote clock offset: 10.287 ms

# Below is generated by plot.py at 2018-05-24 17:11:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.78 Mbit/s  
95th percentile per-packet one-way delay: 110.227 ms  
Loss rate: 12.36%  
-- Flow 1:  
Average throughput: 55.16 Mbit/s  
95th percentile per-packet one-way delay: 110.286 ms  
Loss rate: 10.01%  
-- Flow 2:  
Average throughput: 31.46 Mbit/s  
95th percentile per-packet one-way delay: 109.350 ms  
Loss rate: 17.36%  
-- Flow 3:  
Average throughput: 25.94 Mbit/s  
95th percentile per-packet one-way delay: 110.205 ms  
Loss rate: 14.05%

Run 2: Report of TCP BBR — Data Link

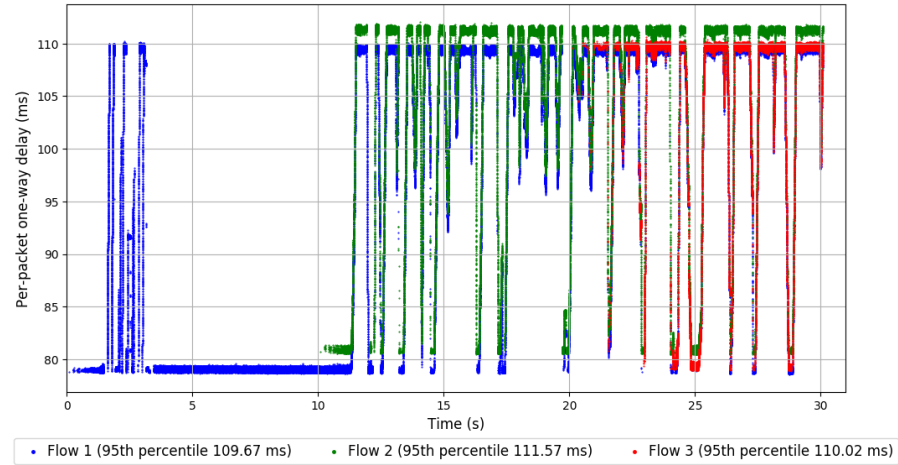
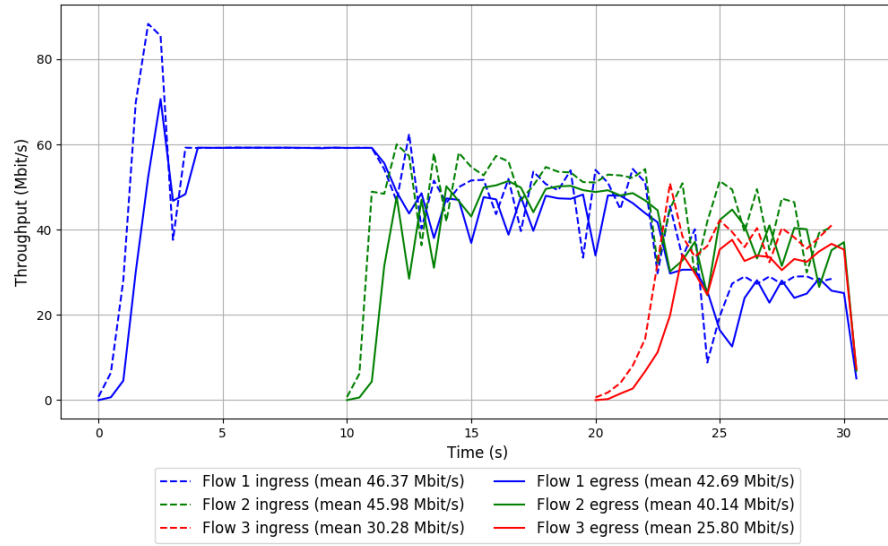


Run 3: Statistics of TCP BBR

Start at: 2018-05-24 14:49:09  
End at: 2018-05-24 14:49:39  
Local clock offset: -1.829 ms  
Remote clock offset: 20.349 ms

# Below is generated by plot.py at 2018-05-24 17:11:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.01 Mbit/s  
95th percentile per-packet one-way delay: 111.458 ms  
Loss rate: 10.32%  
-- Flow 1:  
Average throughput: 42.69 Mbit/s  
95th percentile per-packet one-way delay: 109.671 ms  
Loss rate: 7.85%  
-- Flow 2:  
Average throughput: 40.14 Mbit/s  
95th percentile per-packet one-way delay: 111.573 ms  
Loss rate: 12.58%  
-- Flow 3:  
Average throughput: 25.80 Mbit/s  
95th percentile per-packet one-way delay: 110.016 ms  
Loss rate: 14.80%

### Run 3: Report of TCP BBR — Data Link

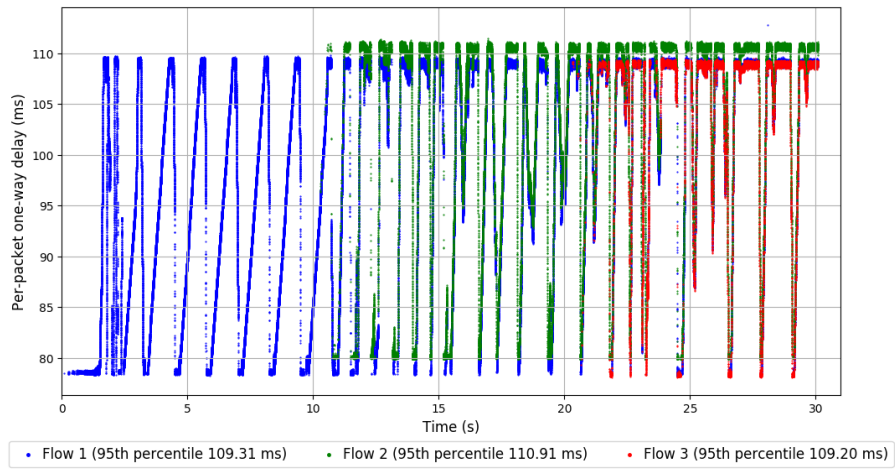
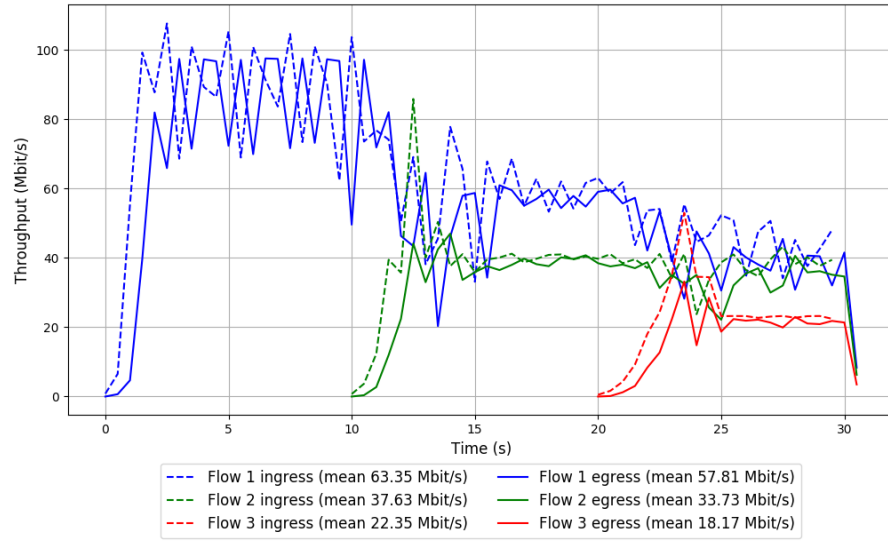


Run 4: Statistics of TCP BBR

Start at: 2018-05-24 15:08:49  
End at: 2018-05-24 15:09:19  
Local clock offset: -1.182 ms  
Remote clock offset: 24.486 ms

# Below is generated by plot.py at 2018-05-24 17:11:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.31 Mbit/s  
95th percentile per-packet one-way delay: 110.705 ms  
Loss rate: 9.85%  
-- Flow 1:  
Average throughput: 57.81 Mbit/s  
95th percentile per-packet one-way delay: 109.311 ms  
Loss rate: 8.66%  
-- Flow 2:  
Average throughput: 33.73 Mbit/s  
95th percentile per-packet one-way delay: 110.912 ms  
Loss rate: 10.27%  
-- Flow 3:  
Average throughput: 18.17 Mbit/s  
95th percentile per-packet one-way delay: 109.199 ms  
Loss rate: 18.66%

# Run 4: Report of TCP BBR — Data Link

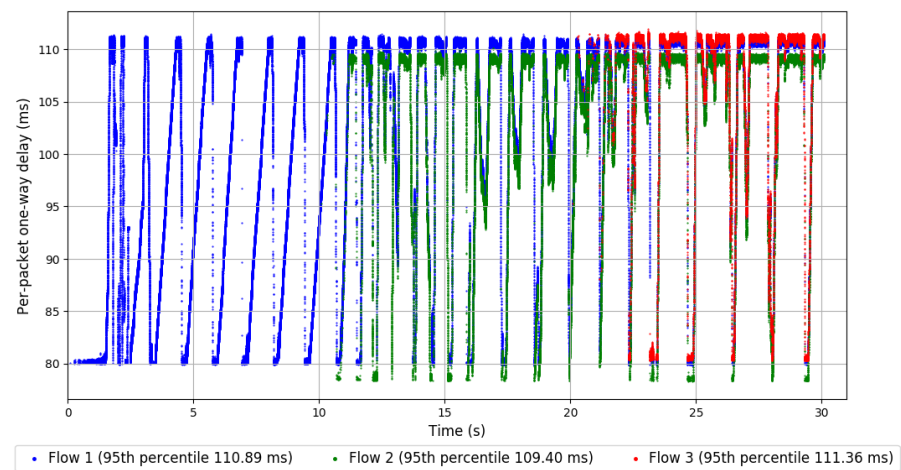
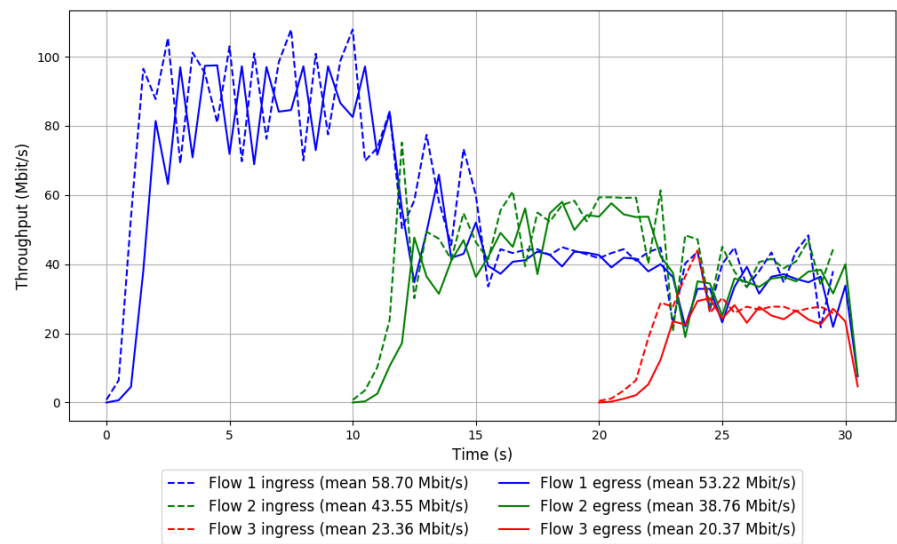


Run 5: Statistics of TCP BBR

Start at: 2018-05-24 15:28:30  
End at: 2018-05-24 15:29:00  
Local clock offset: -1.278 ms  
Remote clock offset: 28.187 ms

# Below is generated by plot.py at 2018-05-24 17:11:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.82 Mbit/s  
95th percentile per-packet one-way delay: 110.966 ms  
Loss rate: 10.04%  
-- Flow 1:  
Average throughput: 53.22 Mbit/s  
95th percentile per-packet one-way delay: 110.894 ms  
Loss rate: 9.25%  
-- Flow 2:  
Average throughput: 38.76 Mbit/s  
95th percentile per-packet one-way delay: 109.396 ms  
Loss rate: 10.94%  
-- Flow 3:  
Average throughput: 20.37 Mbit/s  
95th percentile per-packet one-way delay: 111.355 ms  
Loss rate: 12.65%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-24 15:48:11

End at: 2018-05-24 15:48:41

Local clock offset: -2.416 ms

Remote clock offset: 7.149 ms

# Below is generated by plot.py at 2018-05-24 17:11:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.69 Mbit/s

95th percentile per-packet one-way delay: 119.129 ms

Loss rate: 7.83%

-- Flow 1:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 113.250 ms

Loss rate: 7.08%

-- Flow 2:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 119.317 ms

Loss rate: 8.98%

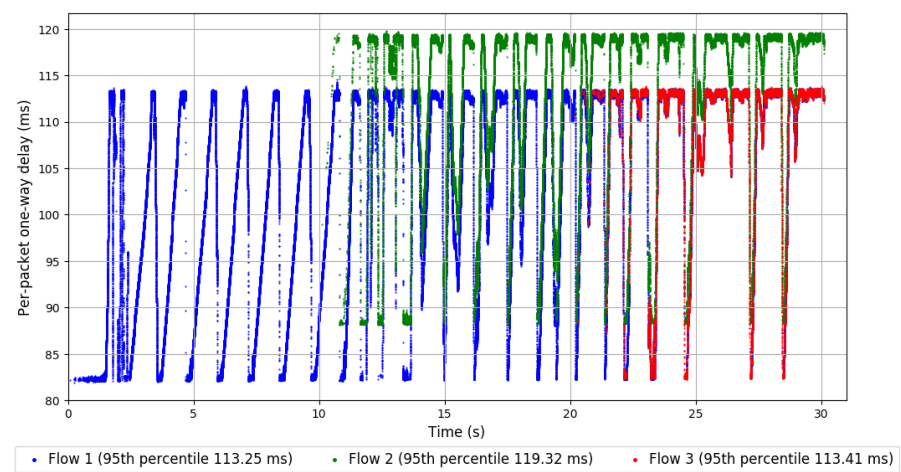
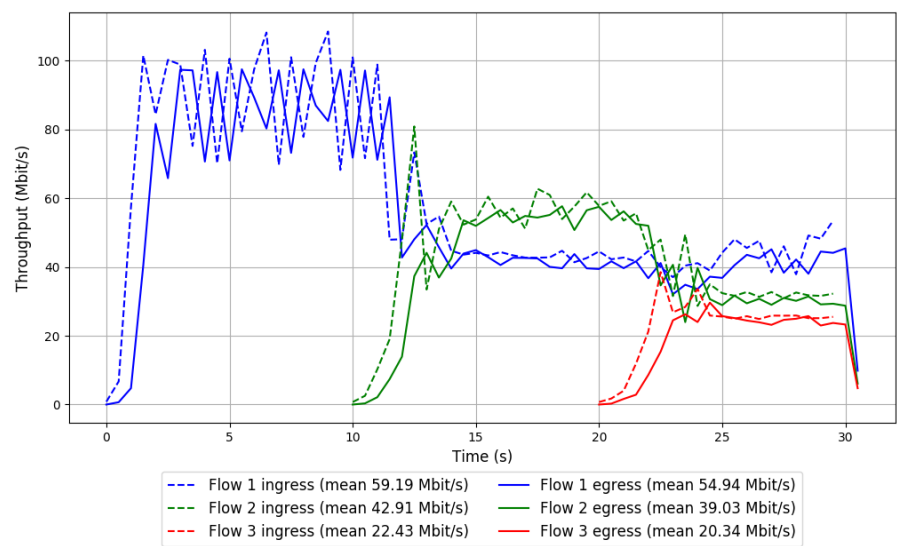
-- Flow 3:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 113.409 ms

Loss rate: 9.33%

Run 6: Report of TCP BBR — Data Link

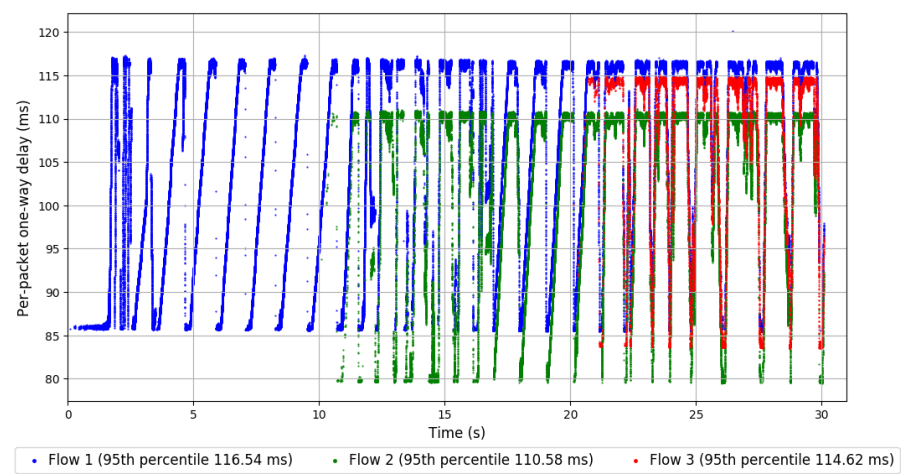
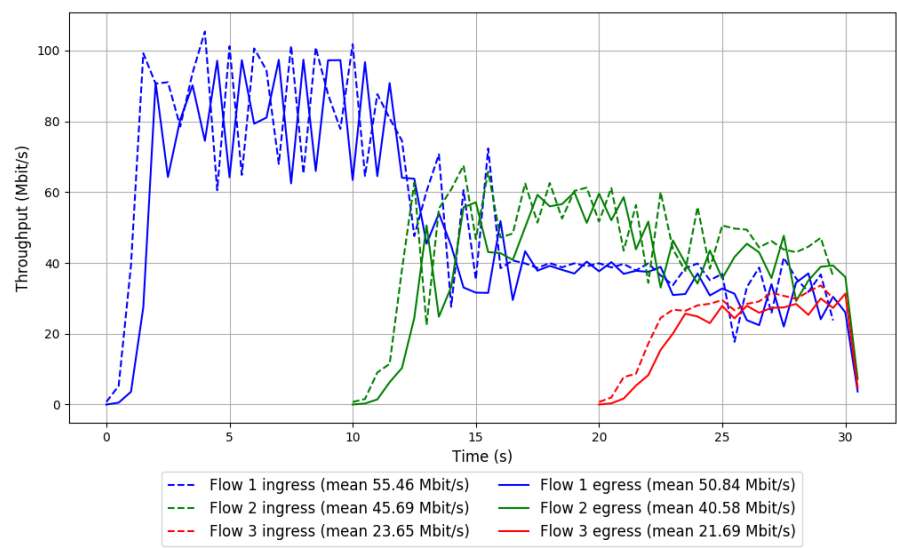


Run 7: Statistics of TCP BBR

Start at: 2018-05-24 16:07:50  
End at: 2018-05-24 16:08:20  
Local clock offset: -2.244 ms  
Remote clock offset: -3.011 ms

# Below is generated by plot.py at 2018-05-24 17:11:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.07 Mbit/s  
95th percentile per-packet one-way delay: 116.439 ms  
Loss rate: 9.25%  
-- Flow 1:  
Average throughput: 50.84 Mbit/s  
95th percentile per-packet one-way delay: 116.537 ms  
Loss rate: 8.31%  
-- Flow 2:  
Average throughput: 40.58 Mbit/s  
95th percentile per-packet one-way delay: 110.579 ms  
Loss rate: 11.19%  
-- Flow 3:  
Average throughput: 21.69 Mbit/s  
95th percentile per-packet one-way delay: 114.624 ms  
Loss rate: 8.34%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-24 16:27:32

End at: 2018-05-24 16:28:02

Local clock offset: -1.478 ms

Remote clock offset: 1.629 ms

# Below is generated by plot.py at 2018-05-24 17:11:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 115.200 ms

Loss rate: 7.77%

-- Flow 1:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 110.075 ms

Loss rate: 6.42%

-- Flow 2:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 115.416 ms

Loss rate: 9.61%

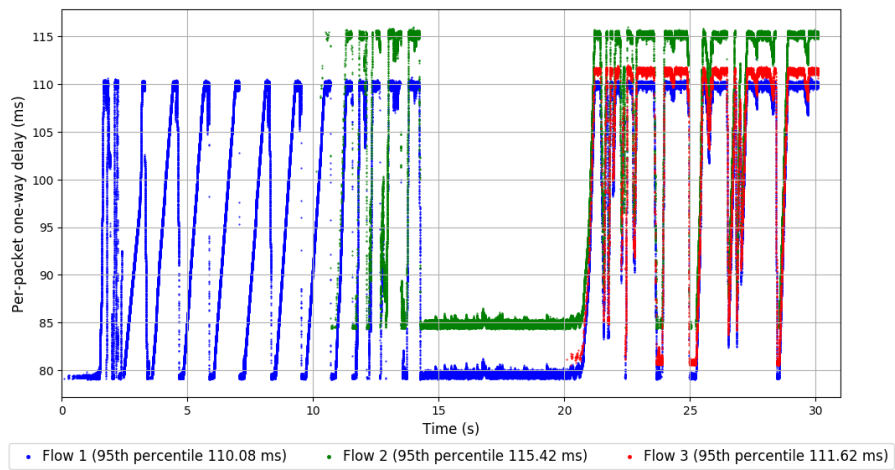
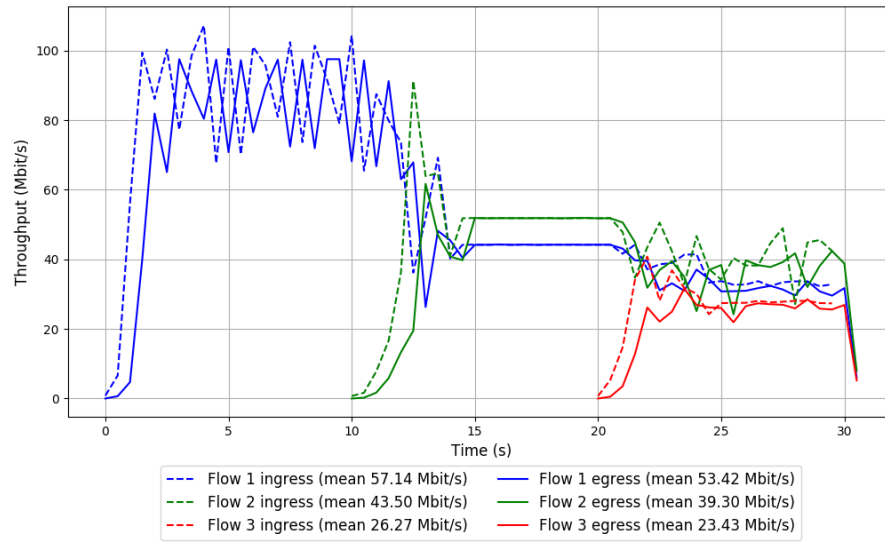
-- Flow 3:

Average throughput: 23.43 Mbit/s

95th percentile per-packet one-way delay: 111.623 ms

Loss rate: 10.52%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-24 16:47:11

End at: 2018-05-24 16:47:41

Local clock offset: -1.426 ms

Remote clock offset: 6.59 ms

# Below is generated by plot.py at 2018-05-24 17:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 119.015 ms

Loss rate: 10.88%

-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 119.085 ms

Loss rate: 9.14%

-- Flow 2:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 113.844 ms

Loss rate: 12.66%

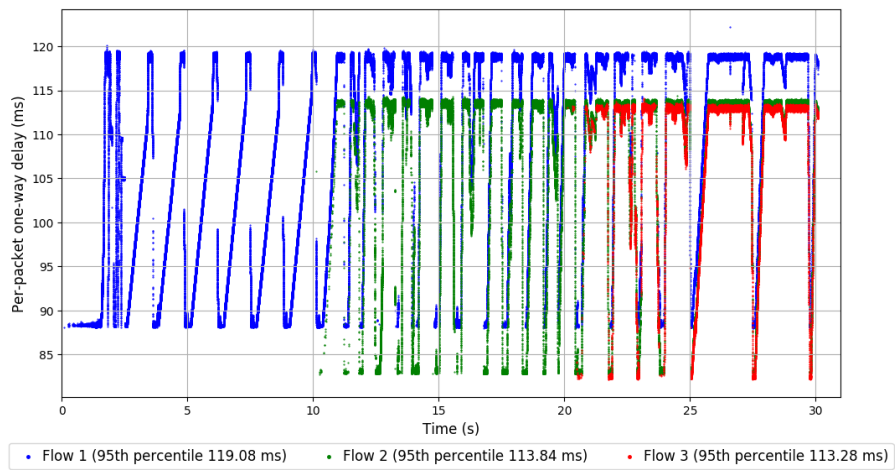
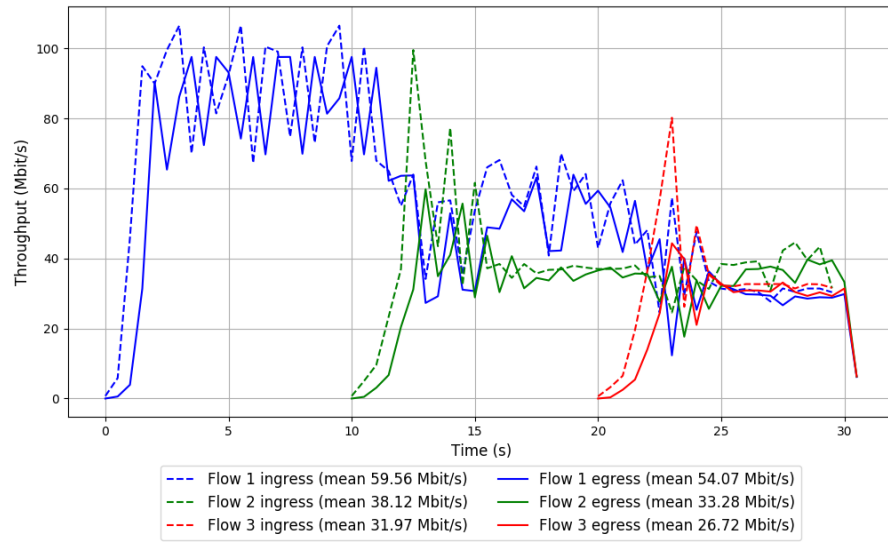
-- Flow 3:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 113.284 ms

Loss rate: 16.41%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-24 17:06:49

End at: 2018-05-24 17:07:19

Local clock offset: -2.097 ms

Remote clock offset: 2.67 ms

# Below is generated by plot.py at 2018-05-24 17:11:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 111.380 ms

Loss rate: 8.73%

-- Flow 1:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 111.469 ms

Loss rate: 6.98%

-- Flow 2:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 110.279 ms

Loss rate: 10.53%

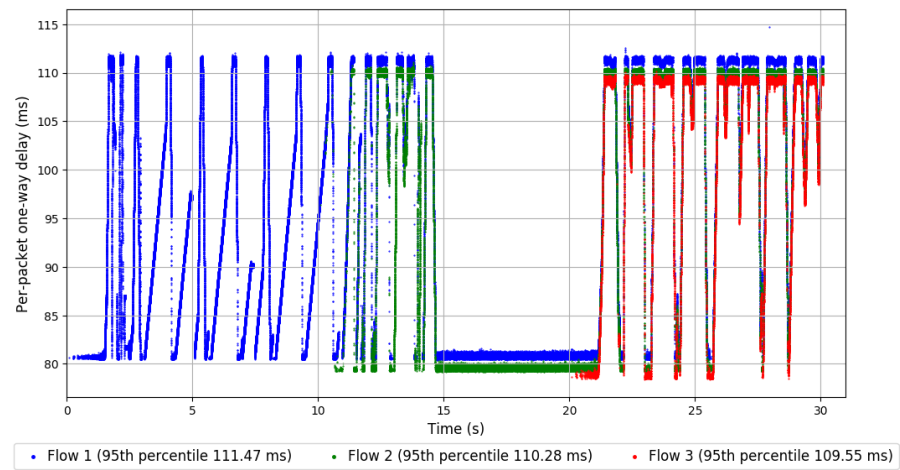
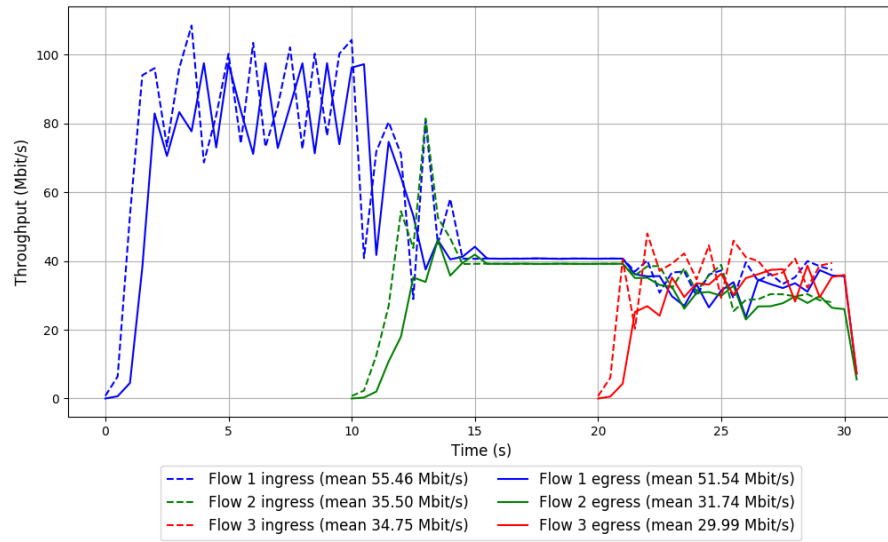
-- Flow 3:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 109.548 ms

Loss rate: 13.44%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-24 14:04:48

End at: 2018-05-24 14:05:18

Local clock offset: -2.309 ms

Remote clock offset: 3.911 ms

# Below is generated by plot.py at 2018-05-24 17:12:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 106.855 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 111.667 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 102.650 ms

Loss rate: 0.34%

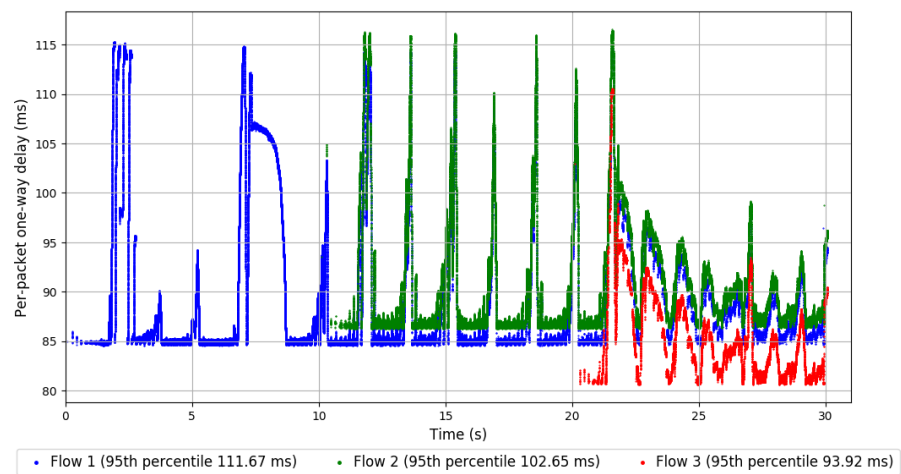
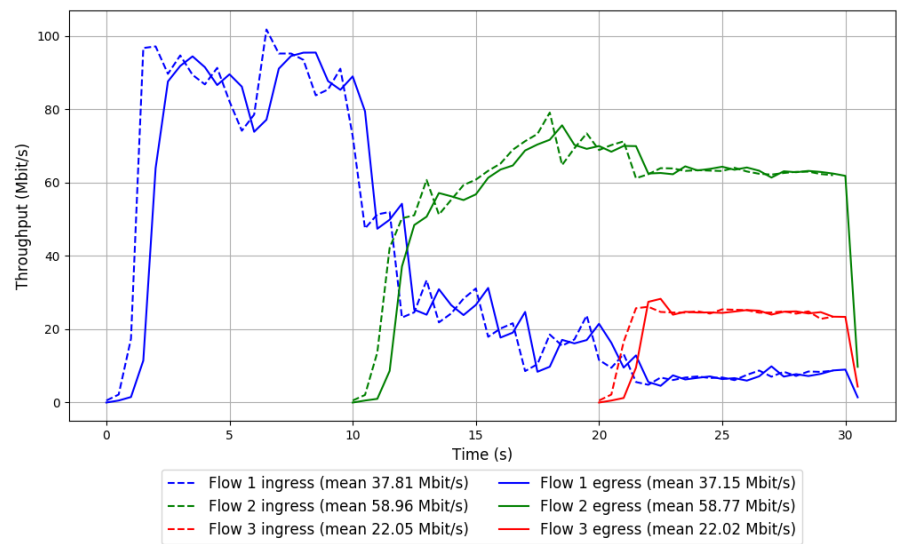
-- Flow 3:

Average throughput: 22.02 Mbit/s

95th percentile per-packet one-way delay: 93.921 ms

Loss rate: 0.26%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-24 14:24:28

End at: 2018-05-24 14:24:58

Local clock offset: -2.096 ms

Remote clock offset: 4.841 ms

# Below is generated by plot.py at 2018-05-24 17:12:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.91 Mbit/s

95th percentile per-packet one-way delay: 109.054 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 110.119 ms

Loss rate: 3.50%

-- Flow 2:

Average throughput: 49.92 Mbit/s

95th percentile per-packet one-way delay: 107.807 ms

Loss rate: 1.81%

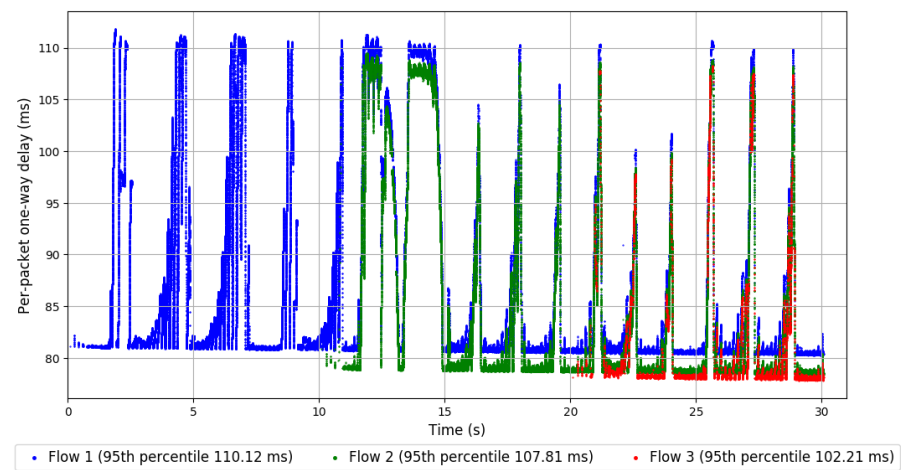
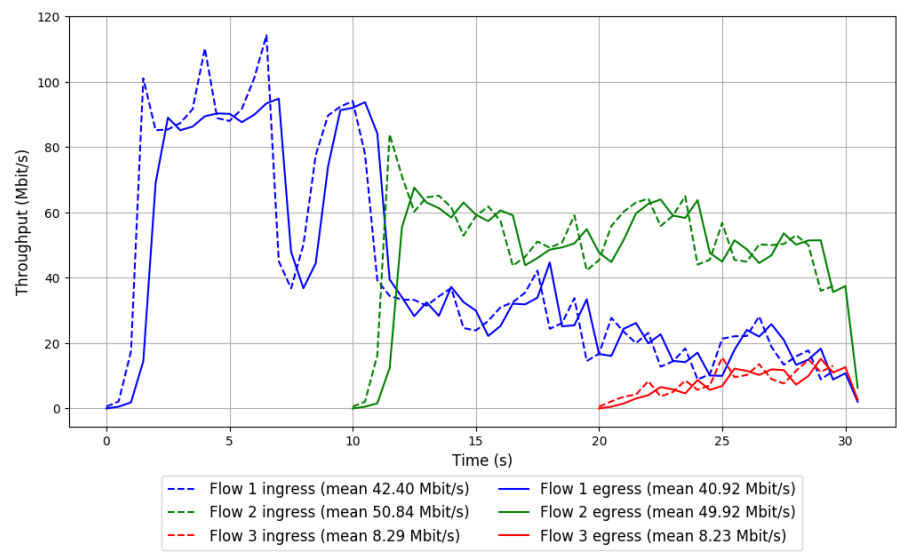
-- Flow 3:

Average throughput: 8.23 Mbit/s

95th percentile per-packet one-way delay: 102.213 ms

Loss rate: 0.81%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-24 14:44:08

End at: 2018-05-24 14:44:38

Local clock offset: -2.596 ms

Remote clock offset: 18.08 ms

# Below is generated by plot.py at 2018-05-24 17:12:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 102.141 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 101.087 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 11.21 Mbit/s

95th percentile per-packet one-way delay: 106.882 ms

Loss rate: 0.56%

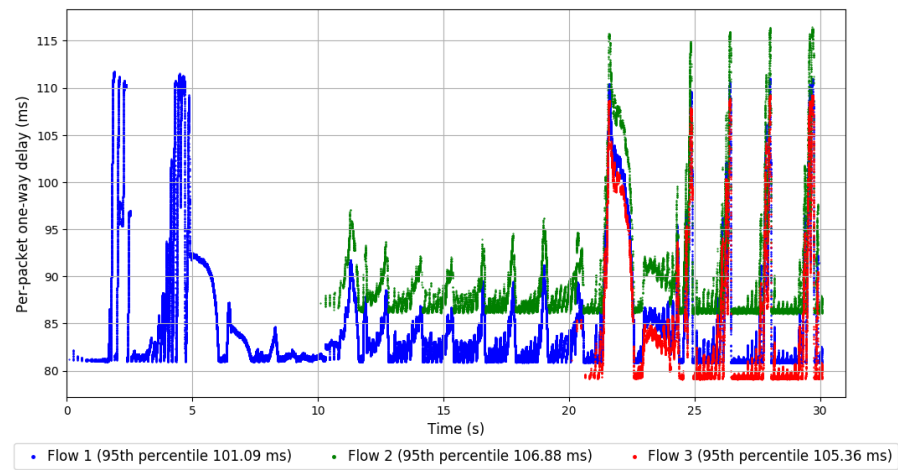
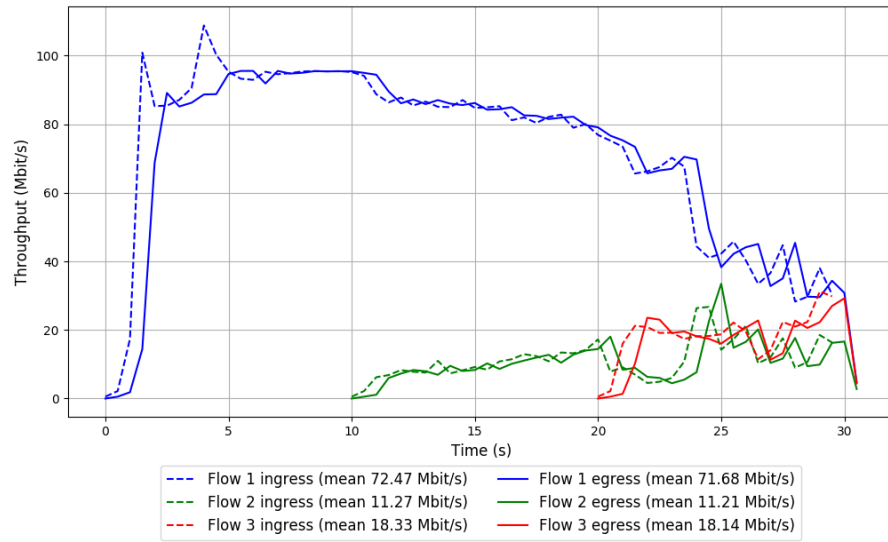
-- Flow 3:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 105.358 ms

Loss rate: 1.08%

### Run 3: Report of Copa — Data Link

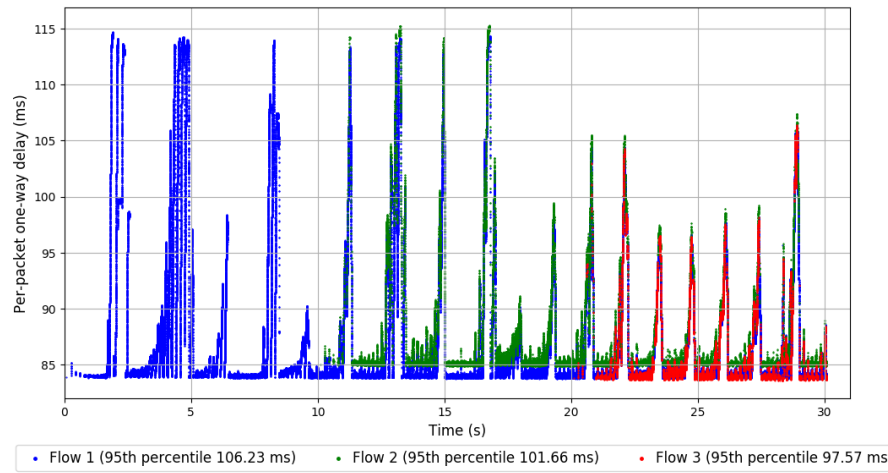
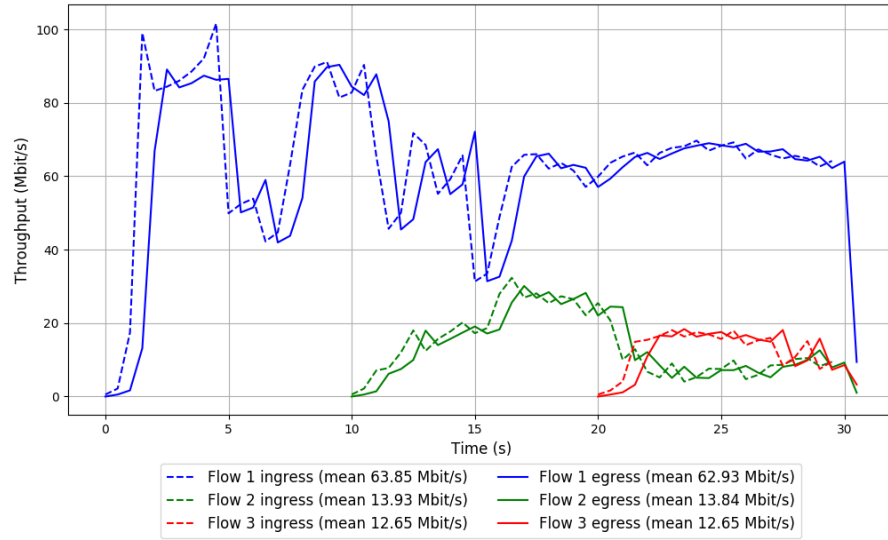


Run 4: Statistics of Copa

Start at: 2018-05-24 15:03:49  
End at: 2018-05-24 15:04:19  
Local clock offset: -2.001 ms  
Remote clock offset: 26.621 ms

# Below is generated by plot.py at 2018-05-24 17:12:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.35 Mbit/s  
95th percentile per-packet one-way delay: 105.159 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 62.93 Mbit/s  
95th percentile per-packet one-way delay: 106.234 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 13.84 Mbit/s  
95th percentile per-packet one-way delay: 101.664 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 12.65 Mbit/s  
95th percentile per-packet one-way delay: 97.572 ms  
Loss rate: 0.00%

# Run 4: Report of Copa — Data Link

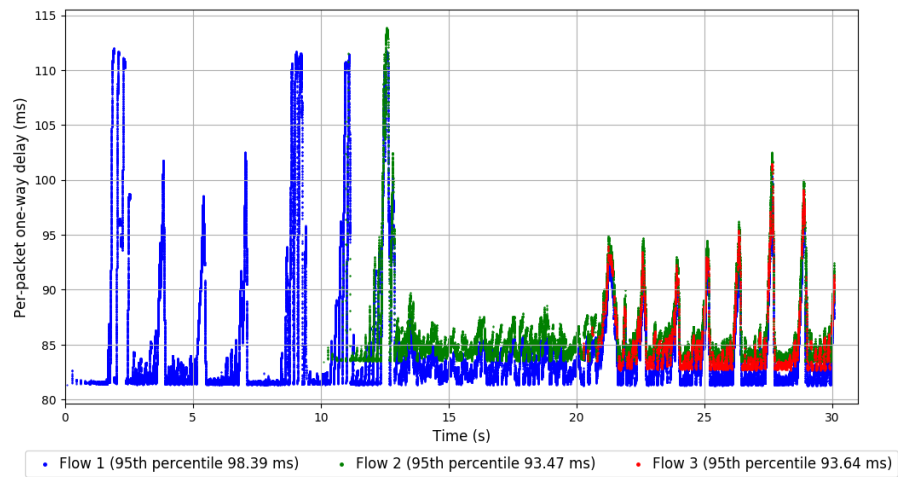
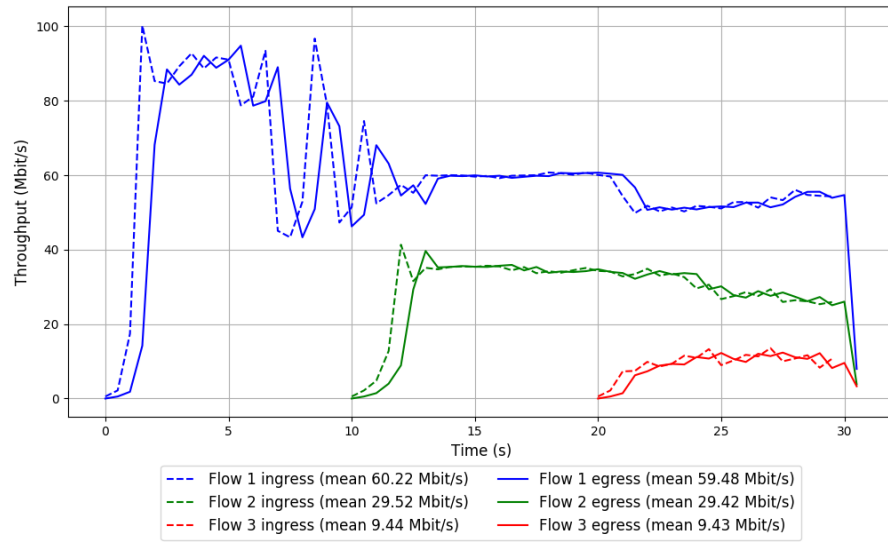


Run 5: Statistics of Copa

Start at: 2018-05-24 15:23:29  
End at: 2018-05-24 15:23:59  
Local clock offset: -1.178 ms  
Remote clock offset: 30.199 ms

```
# Below is generated by plot.py at 2018-05-24 17:12:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 96.959 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 98.387 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 93.474 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 93.642 ms
Loss rate: 0.01%
```

## Run 5: Report of Copa — Data Link

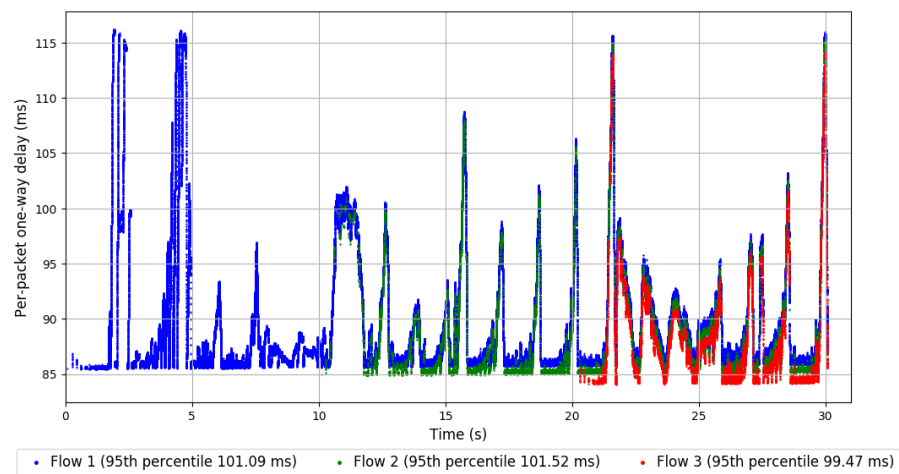
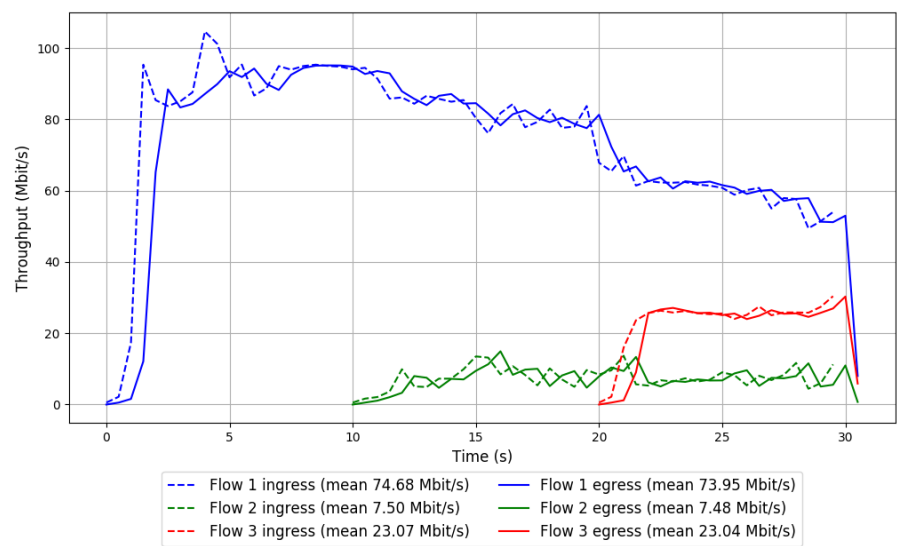


Run 6: Statistics of Copa

Start at: 2018-05-24 15:43:10  
End at: 2018-05-24 15:43:40  
Local clock offset: -1.588 ms  
Remote clock offset: 12.397 ms

# Below is generated by plot.py at 2018-05-24 17:12:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.58 Mbit/s  
95th percentile per-packet one-way delay: 101.042 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 73.95 Mbit/s  
95th percentile per-packet one-way delay: 101.090 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 7.48 Mbit/s  
95th percentile per-packet one-way delay: 101.515 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 23.04 Mbit/s  
95th percentile per-packet one-way delay: 99.466 ms  
Loss rate: 0.30%

Run 6: Report of Copa — Data Link

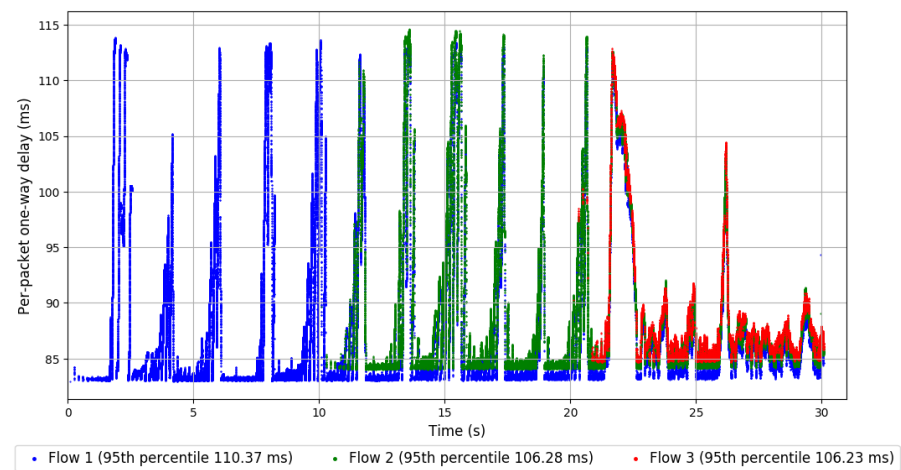
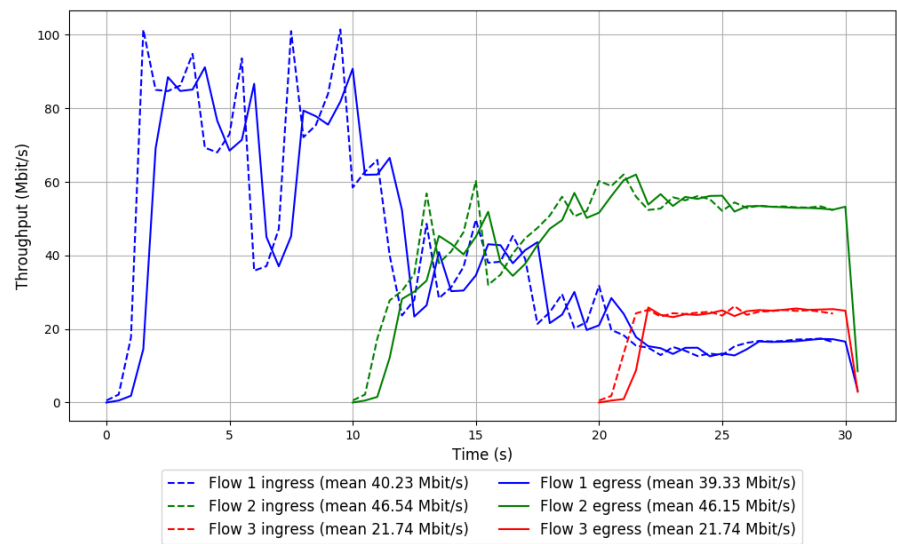


Run 7: Statistics of Copa

Start at: 2018-05-24 16:02:50  
End at: 2018-05-24 16:03:20  
Local clock offset: -2.318 ms  
Remote clock offset: 1.26 ms

# Below is generated by plot.py at 2018-05-24 17:13:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.29 Mbit/s  
95th percentile per-packet one-way delay: 108.299 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 39.33 Mbit/s  
95th percentile per-packet one-way delay: 110.372 ms  
Loss rate: 2.23%  
-- Flow 2:  
Average throughput: 46.15 Mbit/s  
95th percentile per-packet one-way delay: 106.281 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 21.74 Mbit/s  
95th percentile per-packet one-way delay: 106.229 ms  
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-24 16:22:32

End at: 2018-05-24 16:23:02

Local clock offset: -2.195 ms

Remote clock offset: 1.664 ms

# Below is generated by plot.py at 2018-05-24 17:13:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 99.079 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 63.31 Mbit/s

95th percentile per-packet one-way delay: 99.220 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 98.596 ms

Loss rate: 0.24%

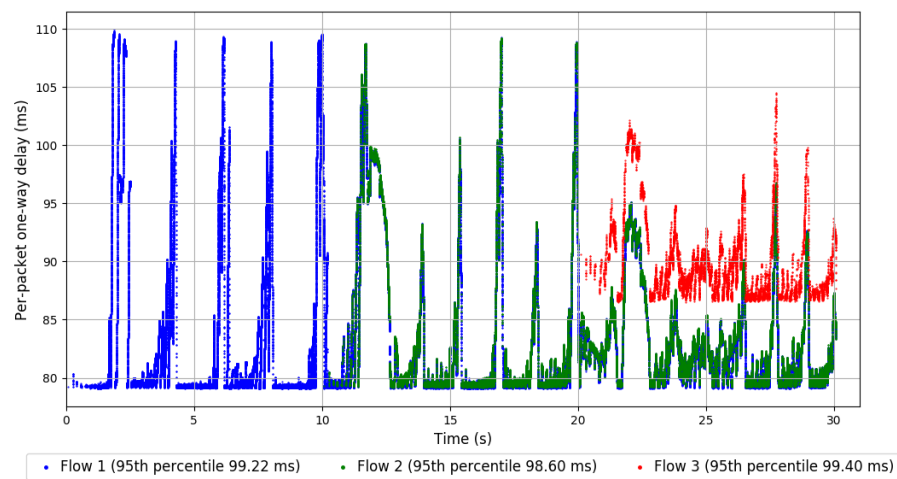
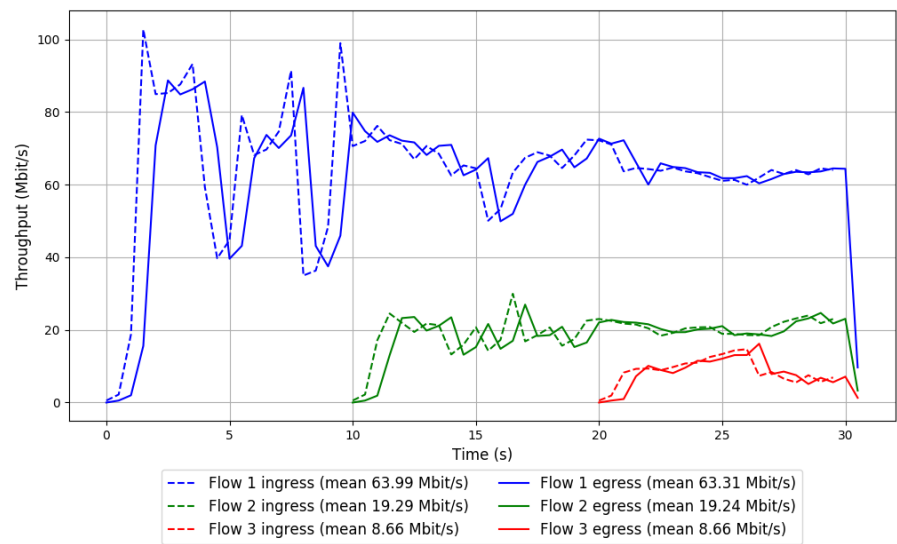
-- Flow 3:

Average throughput: 8.66 Mbit/s

95th percentile per-packet one-way delay: 99.397 ms

Loss rate: 0.09%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-24 16:42:10

End at: 2018-05-24 16:42:40

Local clock offset: -2.204 ms

Remote clock offset: 1.732 ms

# Below is generated by plot.py at 2018-05-24 17:14:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 101.661 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 52.28 Mbit/s

95th percentile per-packet one-way delay: 103.286 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 101.578 ms

Loss rate: 1.12%

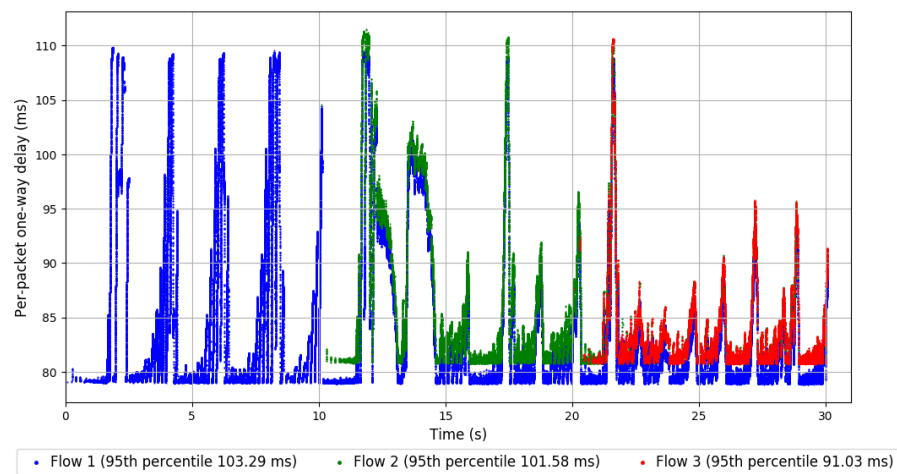
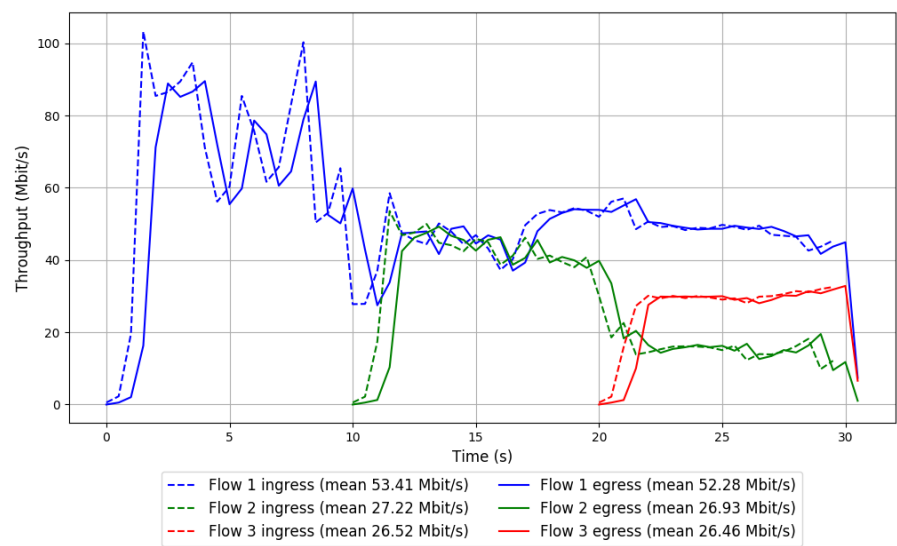
-- Flow 3:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 91.030 ms

Loss rate: 0.16%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-24 17:01:49

End at: 2018-05-24 17:02:19

Local clock offset: -2.198 ms

Remote clock offset: 7.453 ms

# Below is generated by plot.py at 2018-05-24 17:14:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 108.777 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 109.496 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 101.677 ms

Loss rate: 0.14%

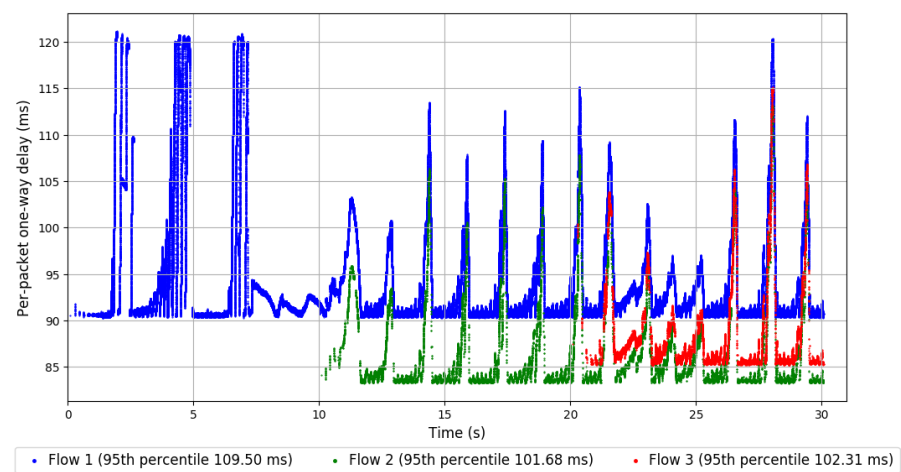
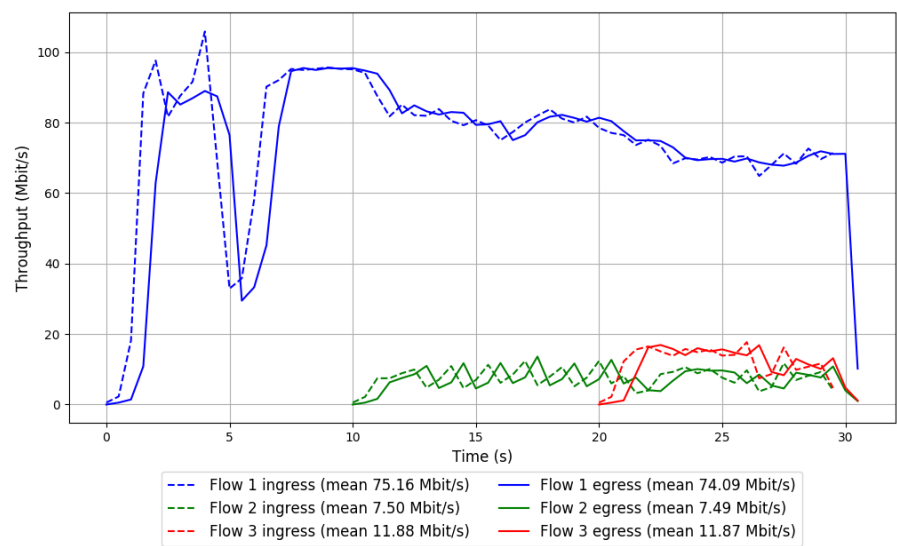
-- Flow 3:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 102.307 ms

Loss rate: 0.17%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 13:53:52

End at: 2018-05-24 13:54:22

Local clock offset: -2.67 ms

Remote clock offset: 7.519 ms

# Below is generated by plot.py at 2018-05-24 17:14:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 111.423 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 110.764 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 17.80 Mbit/s

95th percentile per-packet one-way delay: 112.413 ms

Loss rate: 1.52%

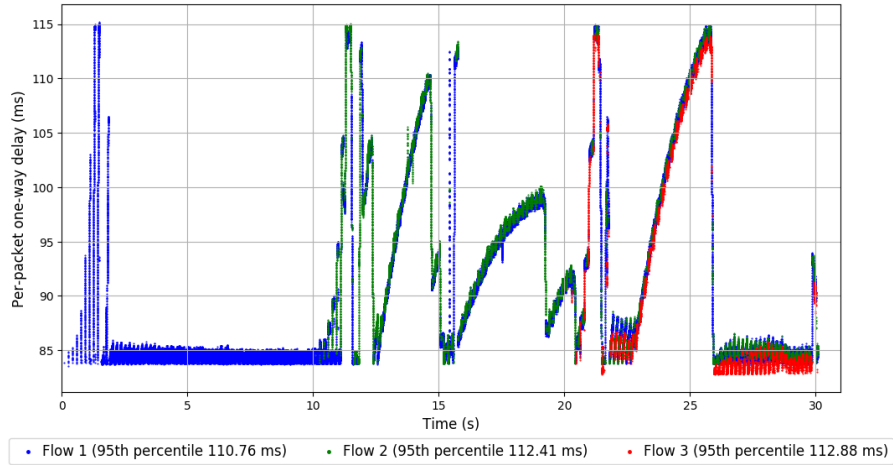
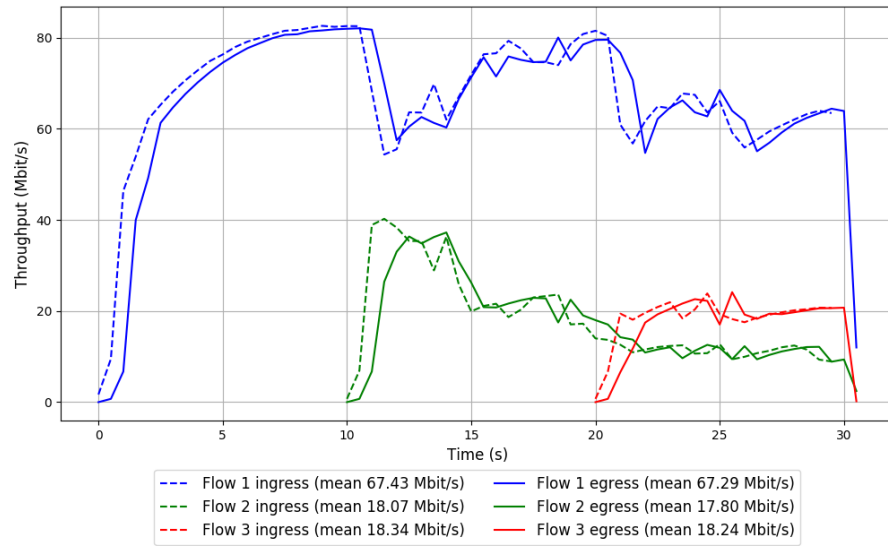
-- Flow 3:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 112.877 ms

Loss rate: 0.63%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 14:13:32

End at: 2018-05-24 14:14:02

Local clock offset: -1.462 ms

Remote clock offset: 7.59 ms

# Below is generated by plot.py at 2018-05-24 17:14:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 108.575 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 104.589 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 109.343 ms

Loss rate: 0.82%

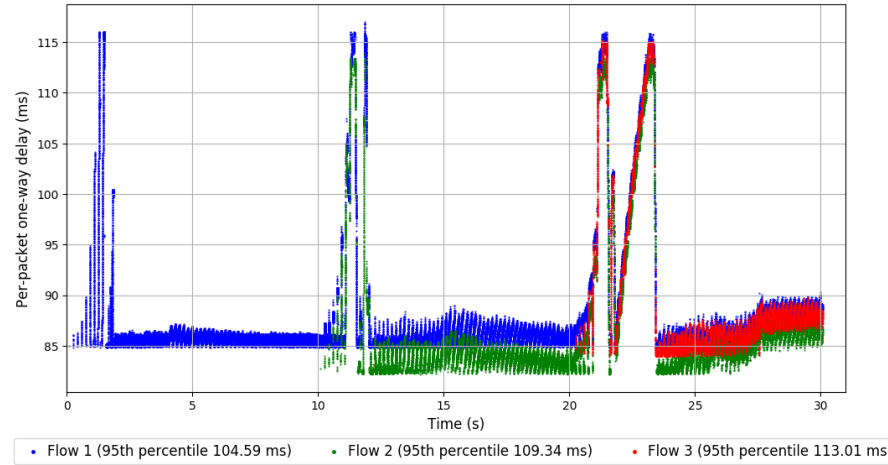
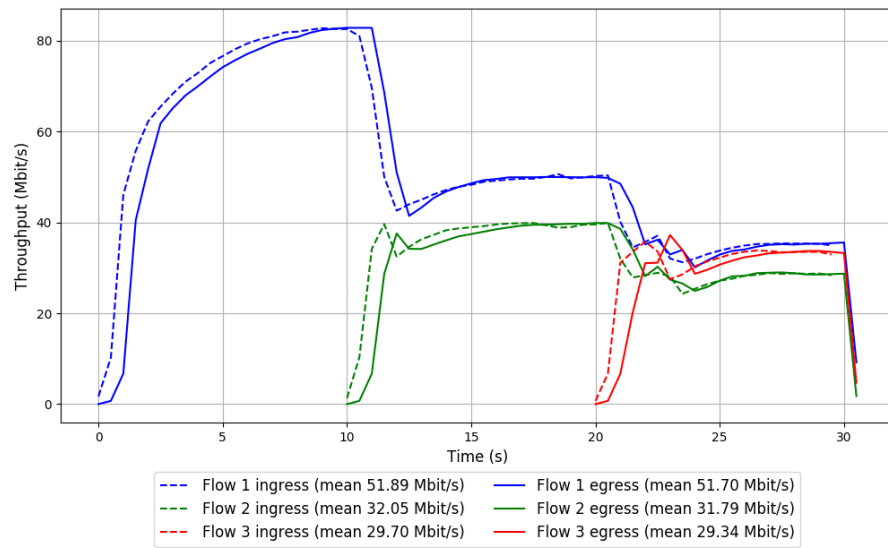
-- Flow 3:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 113.014 ms

Loss rate: 1.18%

## Run 2: Report of TCP Cubic — Data Link

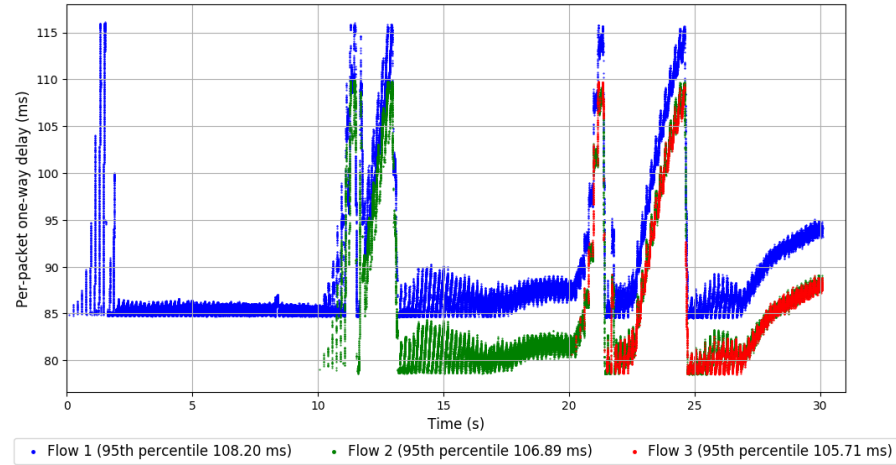
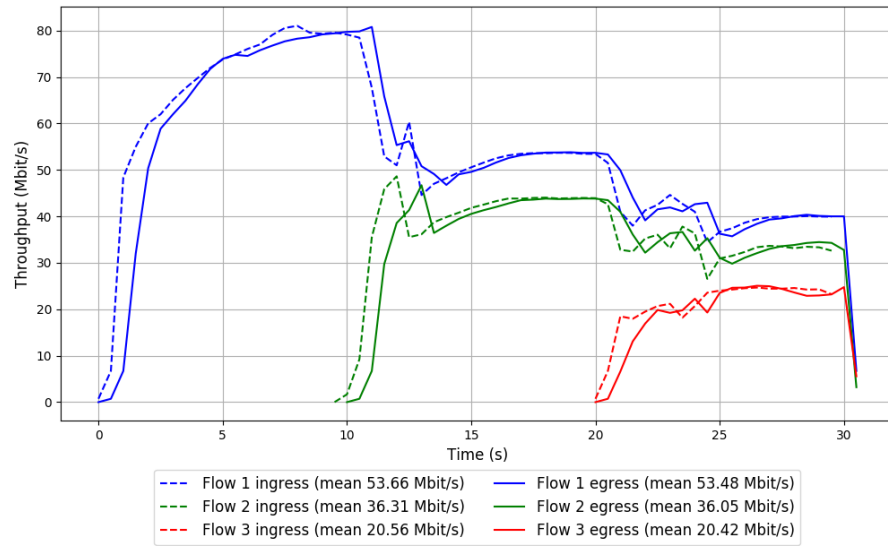


Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 14:33:12  
End at: 2018-05-24 14:33:42  
Local clock offset: -1.932 ms  
Remote clock offset: 14.014 ms

# Below is generated by plot.py at 2018-05-24 17:14:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.31 Mbit/s  
95th percentile per-packet one-way delay: 107.386 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 53.48 Mbit/s  
95th percentile per-packet one-way delay: 108.204 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 36.05 Mbit/s  
95th percentile per-packet one-way delay: 106.895 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 20.42 Mbit/s  
95th percentile per-packet one-way delay: 105.709 ms  
Loss rate: 0.57%

### Run 3: Report of TCP Cubic — Data Link

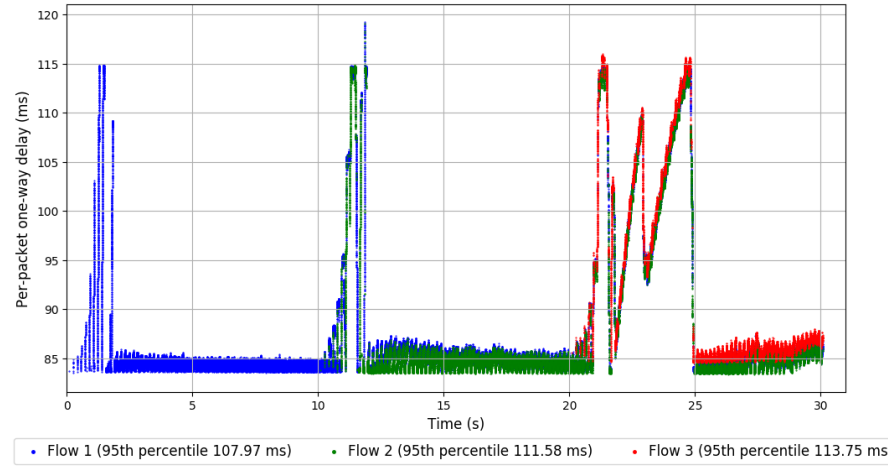
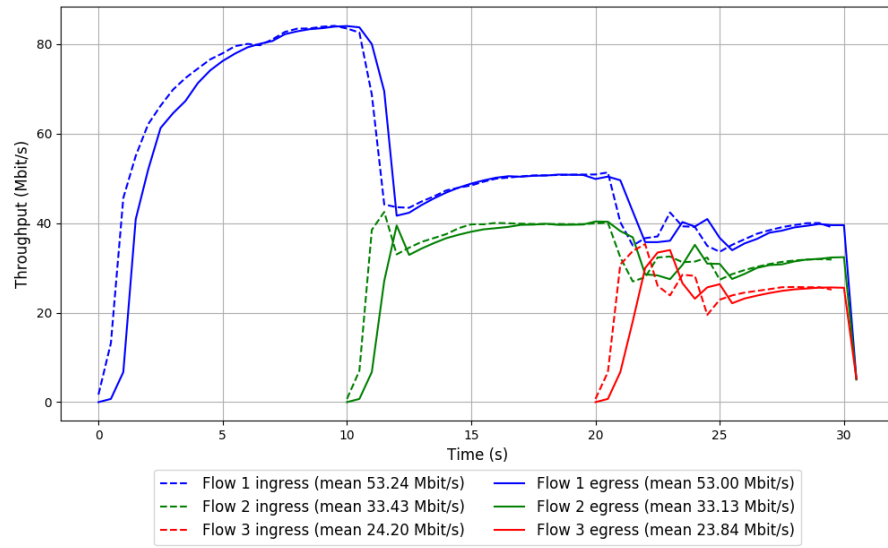


Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 14:52:53  
End at: 2018-05-24 14:53:23  
Local clock offset: -1.871 ms  
Remote clock offset: 25.2 ms

# Below is generated by plot.py at 2018-05-24 17:14:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.00 Mbit/s  
95th percentile per-packet one-way delay: 110.116 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 53.00 Mbit/s  
95th percentile per-packet one-way delay: 107.972 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 33.13 Mbit/s  
95th percentile per-packet one-way delay: 111.579 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 23.84 Mbit/s  
95th percentile per-packet one-way delay: 113.746 ms  
Loss rate: 1.47%

#### Run 4: Report of TCP Cubic — Data Link

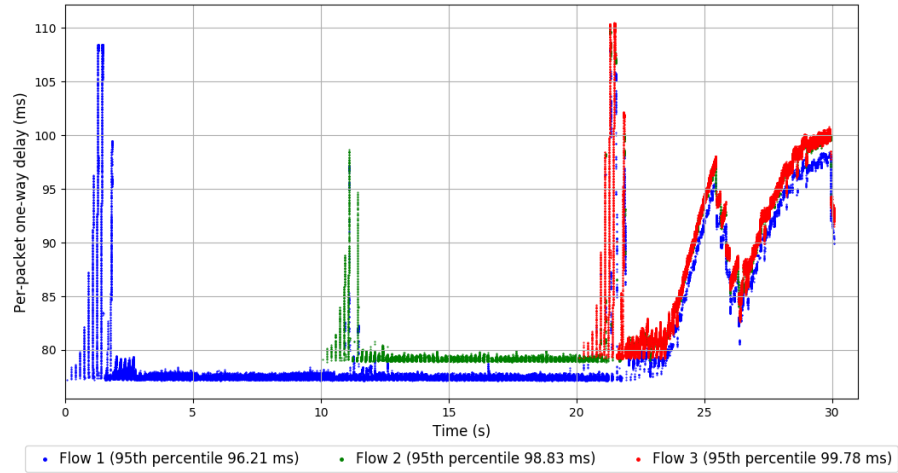
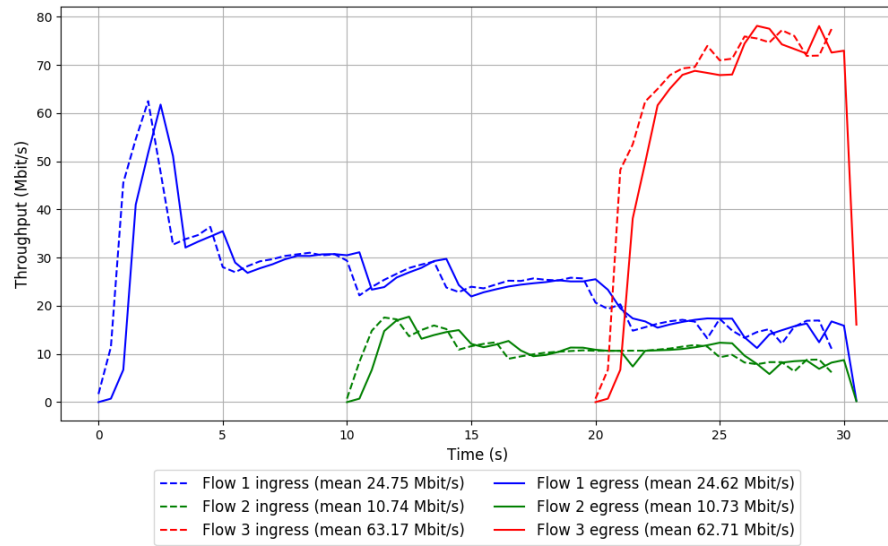


Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 15:12:33  
End at: 2018-05-24 15:13:03  
Local clock offset: -1.2 ms  
Remote clock offset: 24.377 ms

# Below is generated by plot.py at 2018-05-24 17:14:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.62 Mbit/s  
95th percentile per-packet one-way delay: 99.487 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 24.62 Mbit/s  
95th percentile per-packet one-way delay: 96.214 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 10.73 Mbit/s  
95th percentile per-packet one-way delay: 98.829 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 62.71 Mbit/s  
95th percentile per-packet one-way delay: 99.783 ms  
Loss rate: 0.59%

# Run 5: Report of TCP Cubic — Data Link

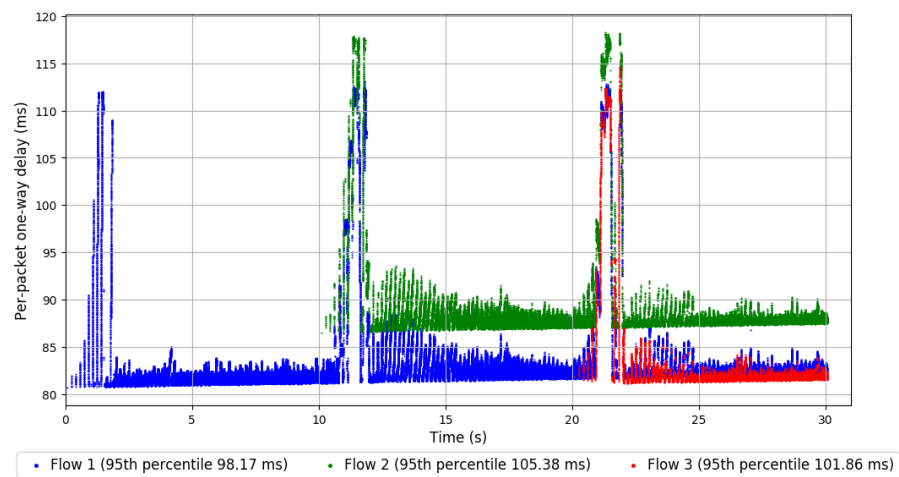
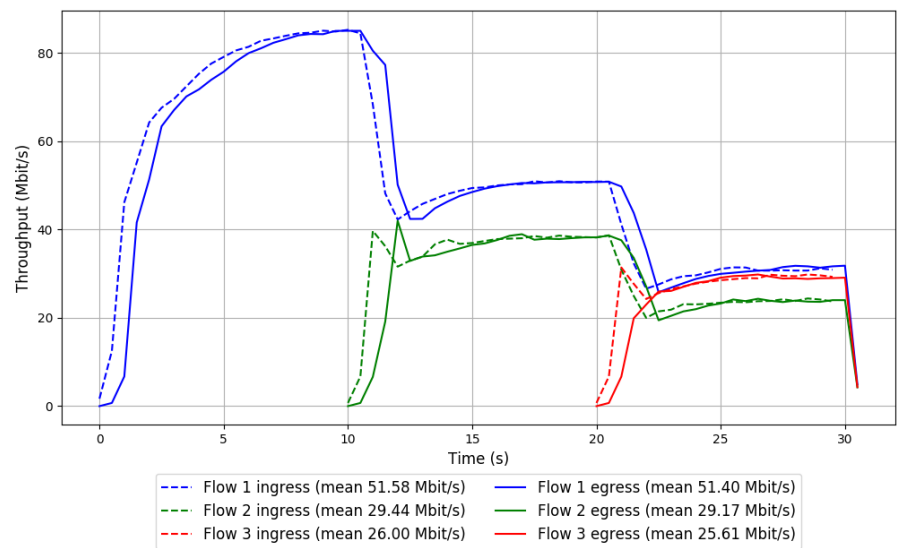


Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 15:32:14  
End at: 2018-05-24 15:32:44  
Local clock offset: -1.387 ms  
Remote clock offset: 27.358 ms

# Below is generated by plot.py at 2018-05-24 17:14:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.33 Mbit/s  
95th percentile per-packet one-way delay: 100.176 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 51.40 Mbit/s  
95th percentile per-packet one-way delay: 98.170 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 29.17 Mbit/s  
95th percentile per-packet one-way delay: 105.375 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 25.61 Mbit/s  
95th percentile per-packet one-way delay: 101.859 ms  
Loss rate: 1.50%

Run 6: Report of TCP Cubic — Data Link

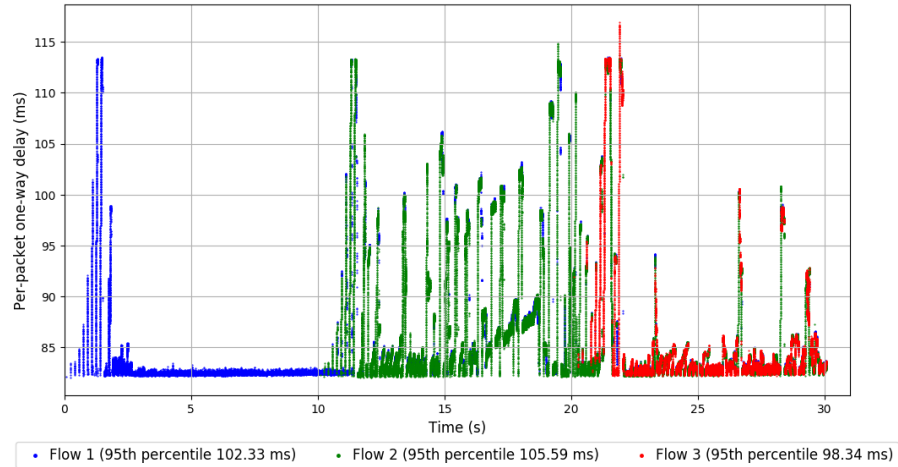
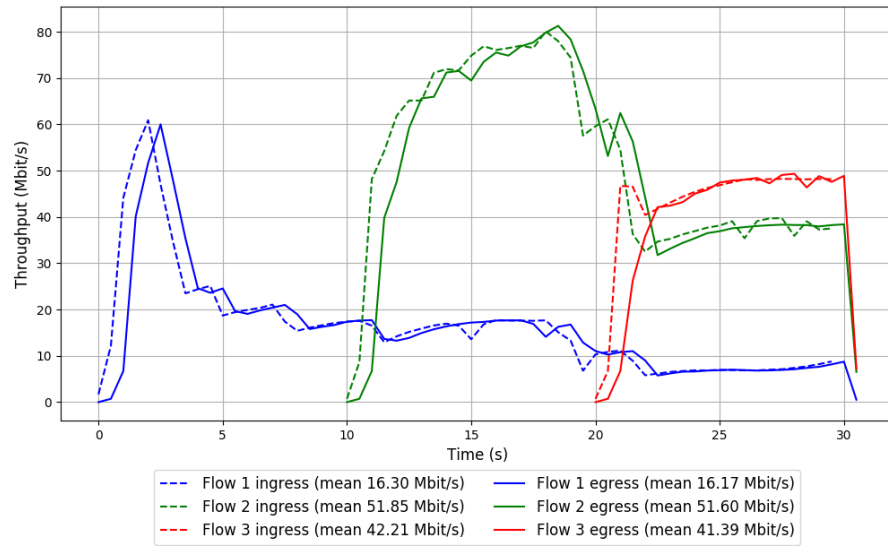


Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 15:51:55  
End at: 2018-05-24 15:52:25  
Local clock offset: -2.441 ms  
Remote clock offset: 4.939 ms

# Below is generated by plot.py at 2018-05-24 17:14:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.29 Mbit/s  
95th percentile per-packet one-way delay: 104.033 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 16.17 Mbit/s  
95th percentile per-packet one-way delay: 102.331 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 51.60 Mbit/s  
95th percentile per-packet one-way delay: 105.591 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 41.39 Mbit/s  
95th percentile per-packet one-way delay: 98.339 ms  
Loss rate: 2.03%

## Run 7: Report of TCP Cubic — Data Link

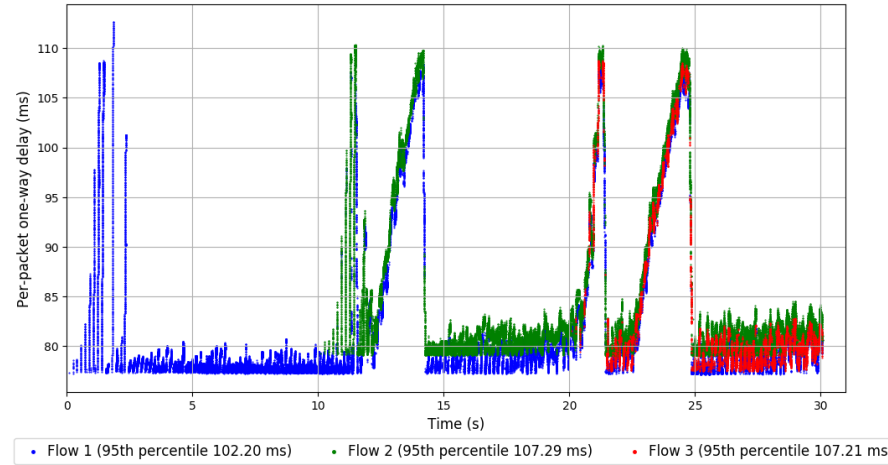
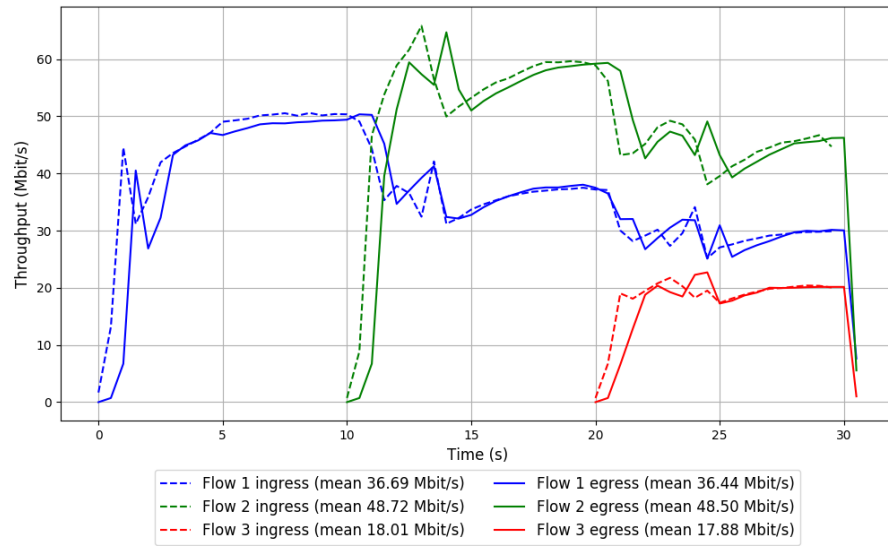


Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 16:11:34  
End at: 2018-05-24 16:12:04  
Local clock offset: -1.467 ms  
Remote clock offset: -1.146 ms

# Below is generated by plot.py at 2018-05-24 17:14:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.69 Mbit/s  
95th percentile per-packet one-way delay: 105.426 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 36.44 Mbit/s  
95th percentile per-packet one-way delay: 102.202 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 48.50 Mbit/s  
95th percentile per-packet one-way delay: 107.289 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 17.88 Mbit/s  
95th percentile per-packet one-way delay: 107.206 ms  
Loss rate: 0.74%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 16:31:16

End at: 2018-05-24 16:31:46

Local clock offset: -3.041 ms

Remote clock offset: 1.507 ms

# Below is generated by plot.py at 2018-05-24 17:14:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 108.095 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 105.707 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 108.963 ms

Loss rate: 0.30%

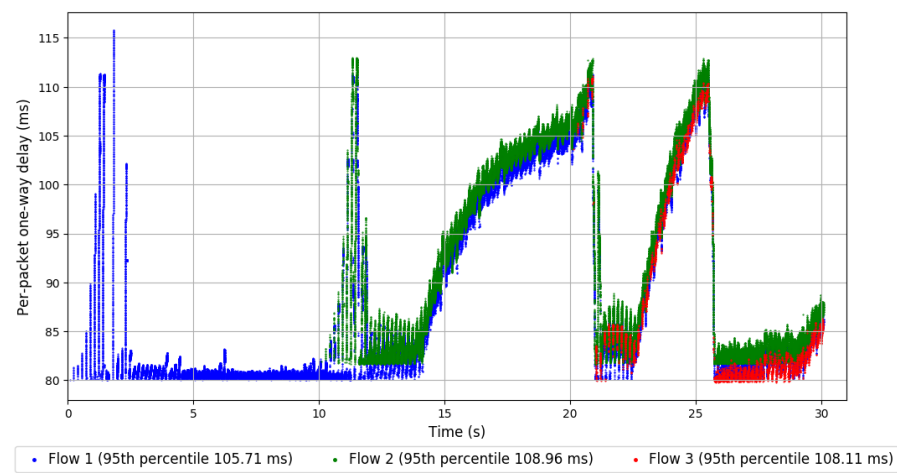
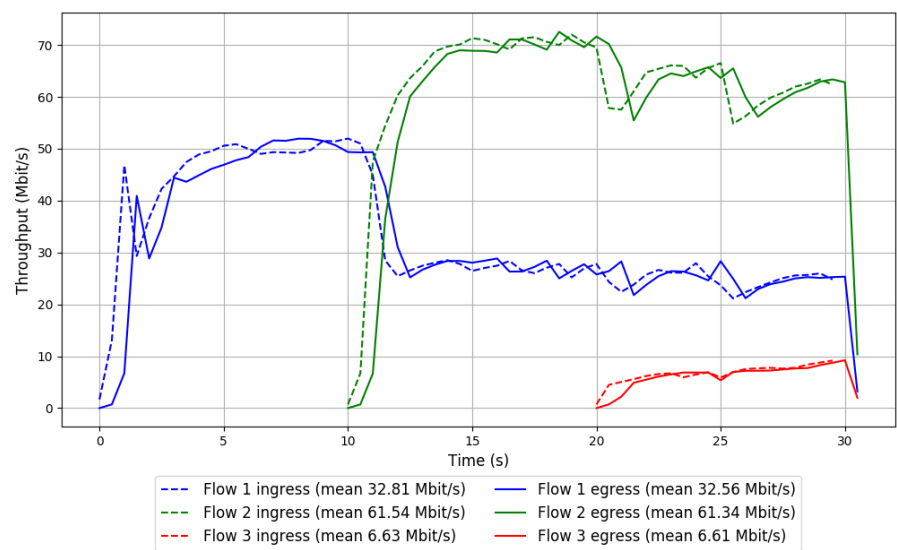
-- Flow 3:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 108.115 ms

Loss rate: 0.51%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 16:50:55

End at: 2018-05-24 16:51:25

Local clock offset: -1.407 ms

Remote clock offset: 2.516 ms

# Below is generated by plot.py at 2018-05-24 17:14:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 101.551 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 23.10 Mbit/s

95th percentile per-packet one-way delay: 97.186 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 100.169 ms

Loss rate: 0.67%

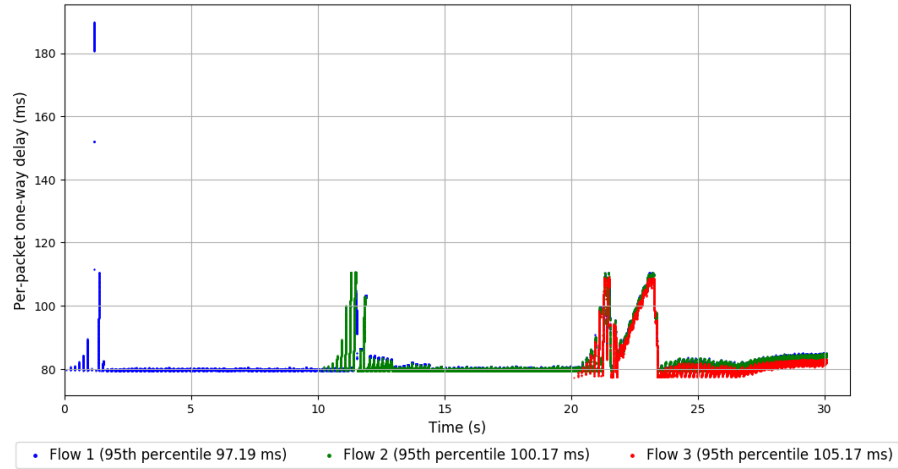
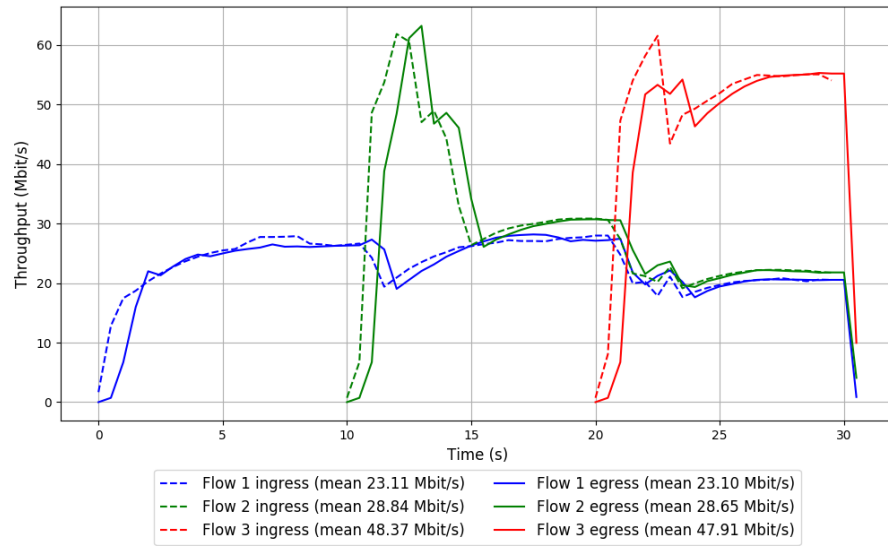
-- Flow 3:

Average throughput: 47.91 Mbit/s

95th percentile per-packet one-way delay: 105.171 ms

Loss rate: 0.90%

# Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-24 14:07:16

End at: 2018-05-24 14:07:46

Local clock offset: -1.496 ms

Remote clock offset: 3.103 ms

# Below is generated by plot.py at 2018-05-24 17:15:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 107.264 ms

Loss rate: 18.02%

-- Flow 1:

Average throughput: 60.05 Mbit/s

95th percentile per-packet one-way delay: 107.322 ms

Loss rate: 17.17%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 105.596 ms

Loss rate: 19.97%

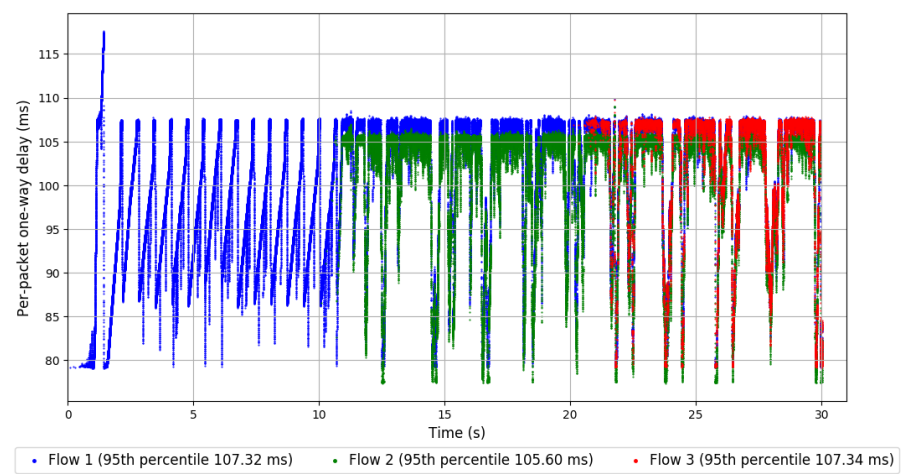
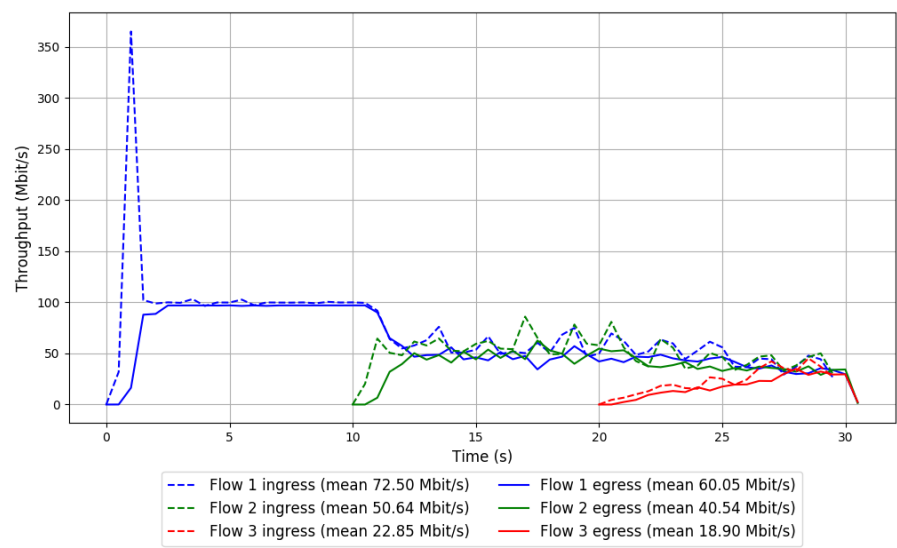
-- Flow 3:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 107.337 ms

Loss rate: 17.50%

Run 1: Report of FillP — Data Link

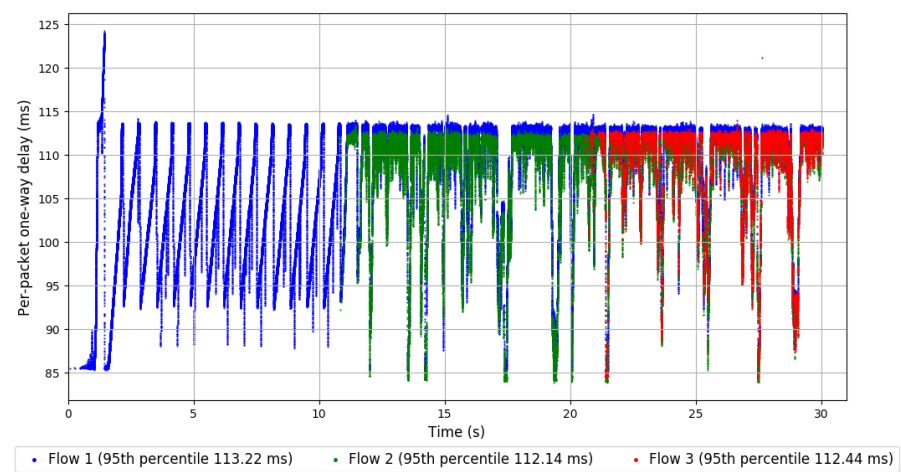
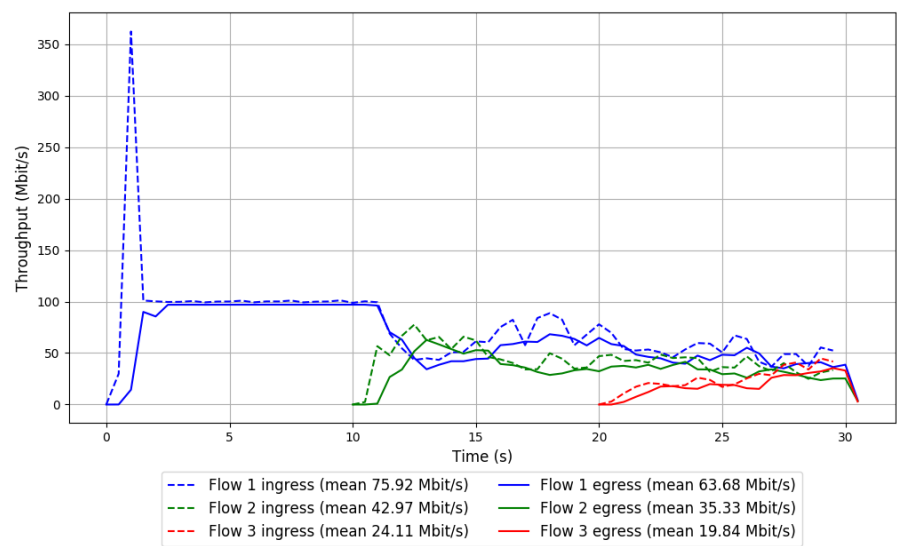


Run 2: Statistics of FillP

Start at: 2018-05-24 14:26:56  
End at: 2018-05-24 14:27:26  
Local clock offset: -1.252 ms  
Remote clock offset: 13.069 ms

# Below is generated by plot.py at 2018-05-24 17:16:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.54 Mbit/s  
95th percentile per-packet one-way delay: 113.126 ms  
Loss rate: 16.79%  
-- Flow 1:  
Average throughput: 63.68 Mbit/s  
95th percentile per-packet one-way delay: 113.217 ms  
Loss rate: 16.04%  
-- Flow 2:  
Average throughput: 35.33 Mbit/s  
95th percentile per-packet one-way delay: 112.138 ms  
Loss rate: 18.54%  
-- Flow 3:  
Average throughput: 19.84 Mbit/s  
95th percentile per-packet one-way delay: 112.445 ms  
Loss rate: 17.57%

Run 2: Report of FillP — Data Link

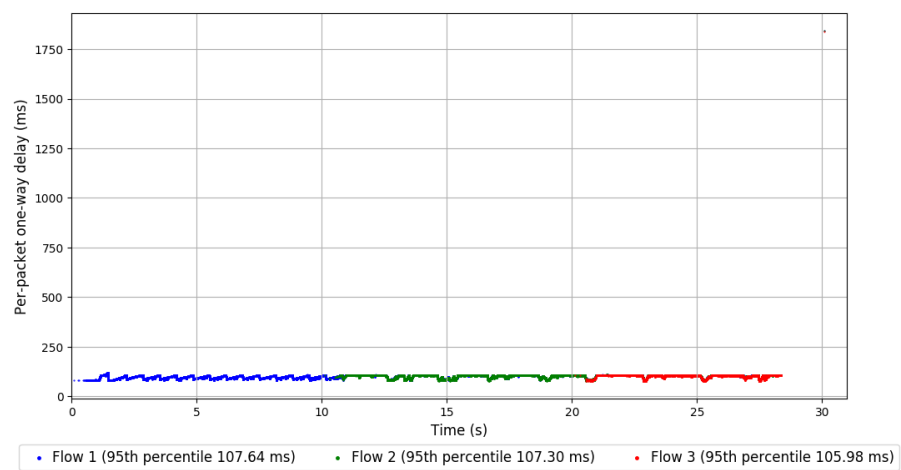
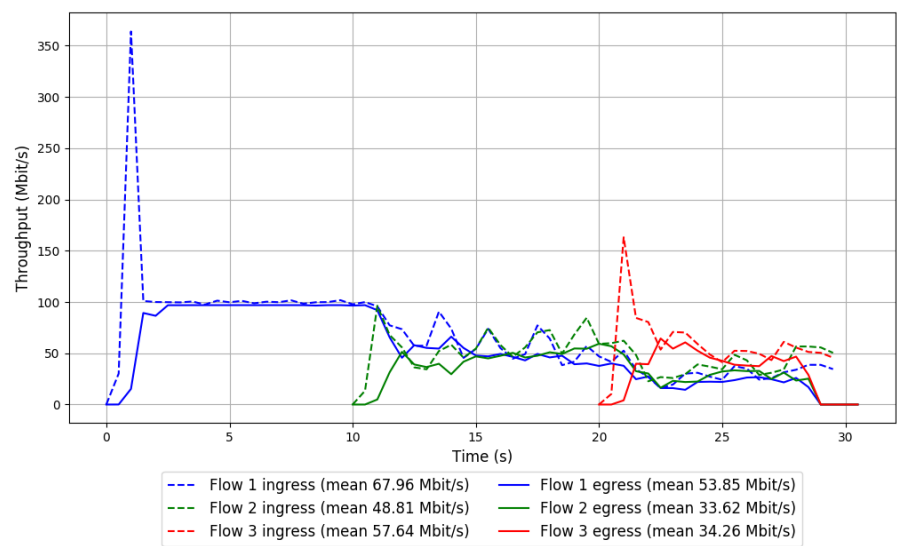


Run 3: Statistics of FillP

Start at: 2018-05-24 14:46:36  
End at: 2018-05-24 14:47:06  
Local clock offset: -1.832 ms  
Remote clock offset: 18.873 ms

# Below is generated by plot.py at 2018-05-24 17:16:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.61 Mbit/s  
95th percentile per-packet one-way delay: 107.537 ms  
Loss rate: 26.53%  
-- Flow 1:  
Average throughput: 53.85 Mbit/s  
95th percentile per-packet one-way delay: 107.636 ms  
Loss rate: 20.56%  
-- Flow 2:  
Average throughput: 33.62 Mbit/s  
95th percentile per-packet one-way delay: 107.299 ms  
Loss rate: 30.94%  
-- Flow 3:  
Average throughput: 34.26 Mbit/s  
95th percentile per-packet one-way delay: 105.985 ms  
Loss rate: 40.27%

Run 3: Report of FillP — Data Link

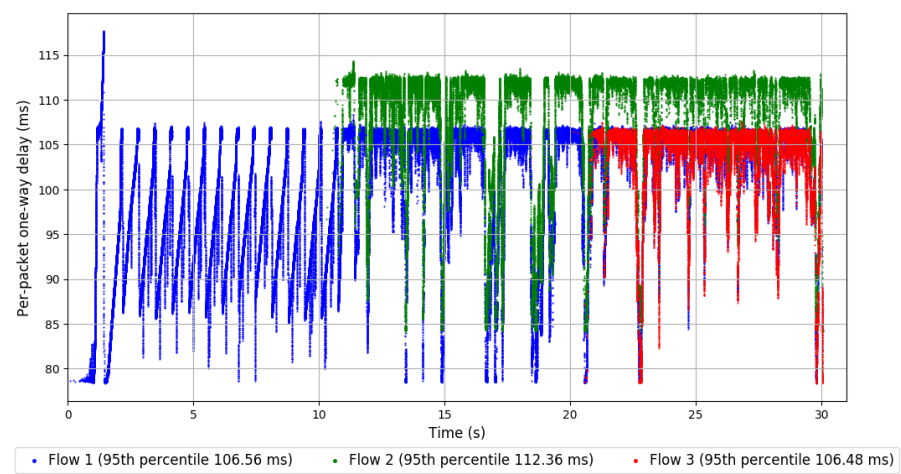
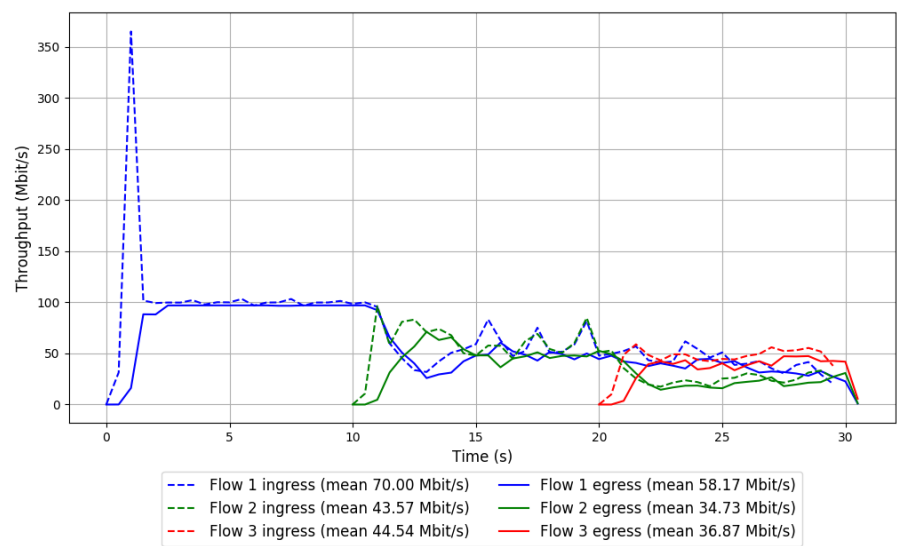


Run 4: Statistics of FillP

Start at: 2018-05-24 15:06:17  
End at: 2018-05-24 15:06:47  
Local clock offset: -1.195 ms  
Remote clock offset: 24.118 ms

# Below is generated by plot.py at 2018-05-24 17:16:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.47 Mbit/s  
95th percentile per-packet one-way delay: 112.111 ms  
Loss rate: 17.84%  
-- Flow 1:  
Average throughput: 58.17 Mbit/s  
95th percentile per-packet one-way delay: 106.556 ms  
Loss rate: 16.89%  
-- Flow 2:  
Average throughput: 34.73 Mbit/s  
95th percentile per-packet one-way delay: 112.363 ms  
Loss rate: 20.32%  
-- Flow 3:  
Average throughput: 36.87 Mbit/s  
95th percentile per-packet one-way delay: 106.481 ms  
Loss rate: 17.46%

Run 4: Report of FillP — Data Link

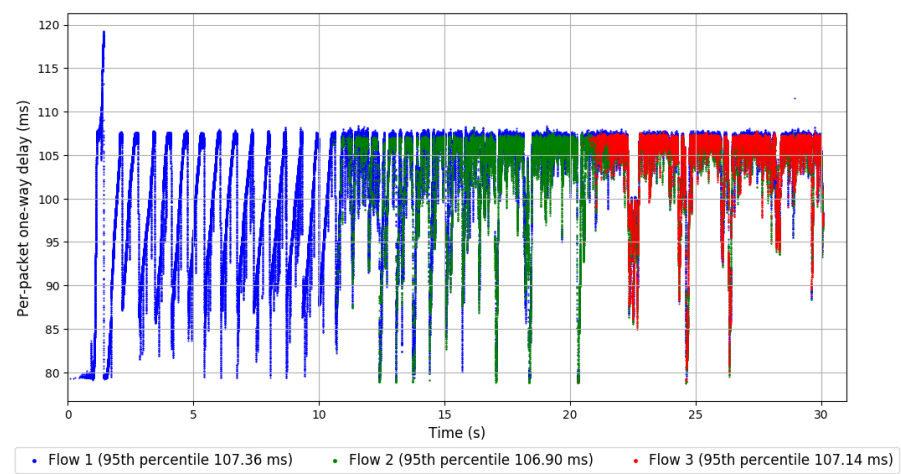
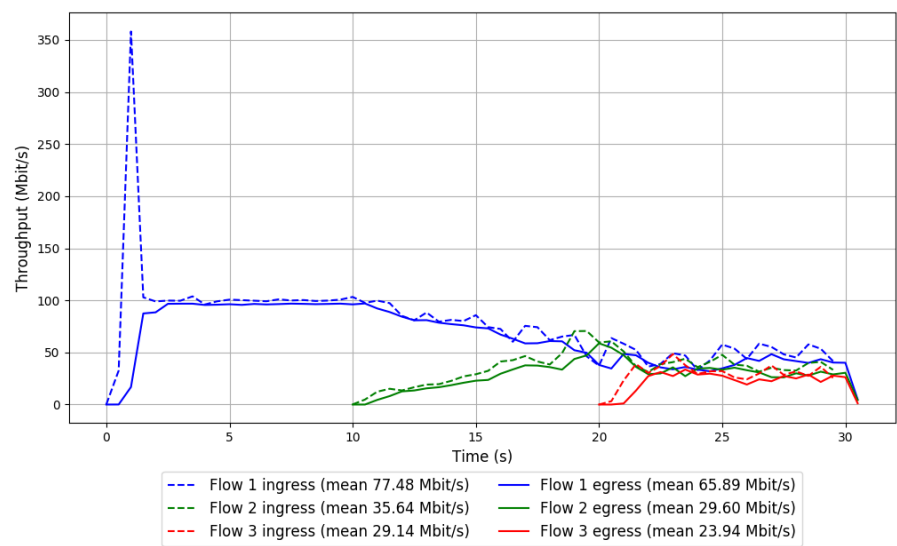


Run 5: Statistics of FillP

Start at: 2018-05-24 15:25:58  
End at: 2018-05-24 15:26:28  
Local clock offset: -1.932 ms  
Remote clock offset: 27.681 ms

# Below is generated by plot.py at 2018-05-24 17:16:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.40 Mbit/s  
95th percentile per-packet one-way delay: 107.297 ms  
Loss rate: 15.72%  
-- Flow 1:  
Average throughput: 65.89 Mbit/s  
95th percentile per-packet one-way delay: 107.356 ms  
Loss rate: 14.90%  
-- Flow 2:  
Average throughput: 29.60 Mbit/s  
95th percentile per-packet one-way delay: 106.899 ms  
Loss rate: 16.91%  
-- Flow 3:  
Average throughput: 23.94 Mbit/s  
95th percentile per-packet one-way delay: 107.143 ms  
Loss rate: 19.33%

Run 5: Report of FillP — Data Link

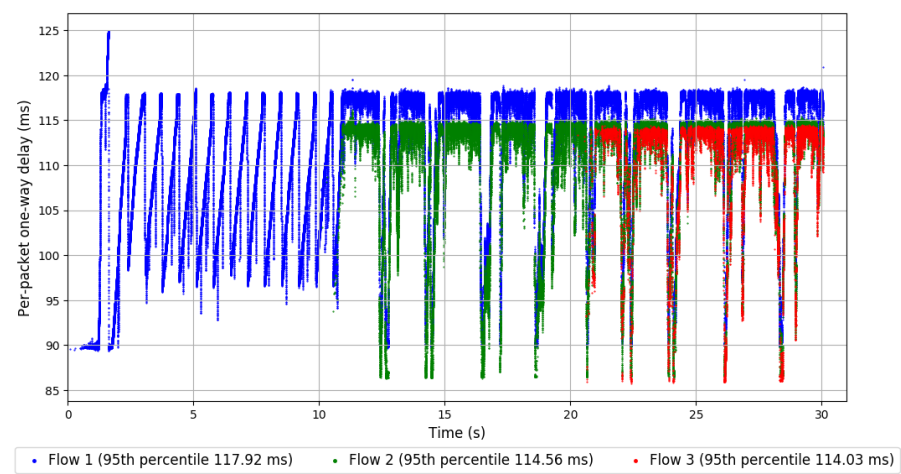
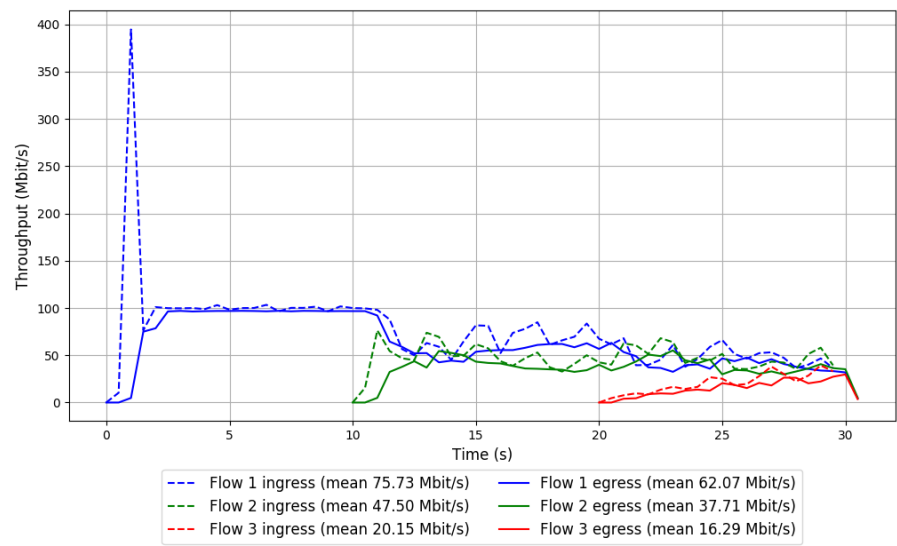


Run 6: Statistics of FillP

Start at: 2018-05-24 15:45:39  
End at: 2018-05-24 15:46:09  
Local clock offset: -2.386 ms  
Remote clock offset: 10.727 ms

# Below is generated by plot.py at 2018-05-24 17:16:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.58 Mbit/s  
95th percentile per-packet one-way delay: 117.847 ms  
Loss rate: 18.75%  
-- Flow 1:  
Average throughput: 62.07 Mbit/s  
95th percentile per-packet one-way delay: 117.925 ms  
Loss rate: 17.96%  
-- Flow 2:  
Average throughput: 37.71 Mbit/s  
95th percentile per-packet one-way delay: 114.557 ms  
Loss rate: 20.56%  
-- Flow 3:  
Average throughput: 16.29 Mbit/s  
95th percentile per-packet one-way delay: 114.029 ms  
Loss rate: 19.14%

Run 6: Report of FillP — Data Link

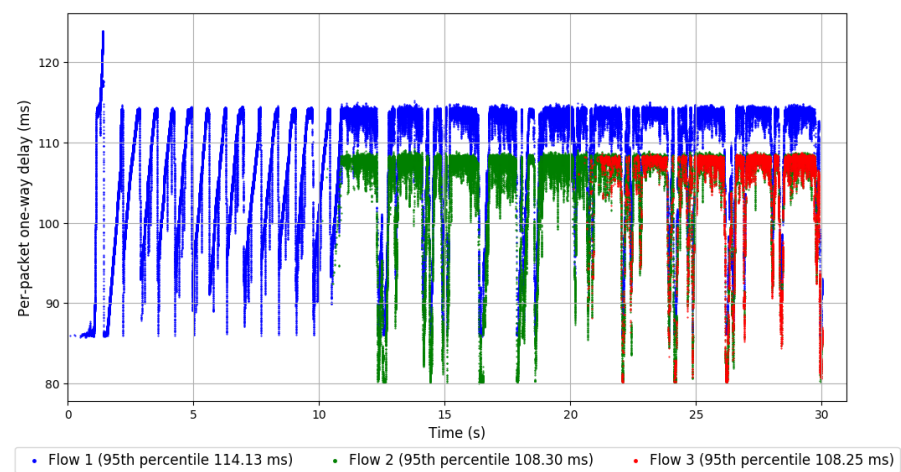
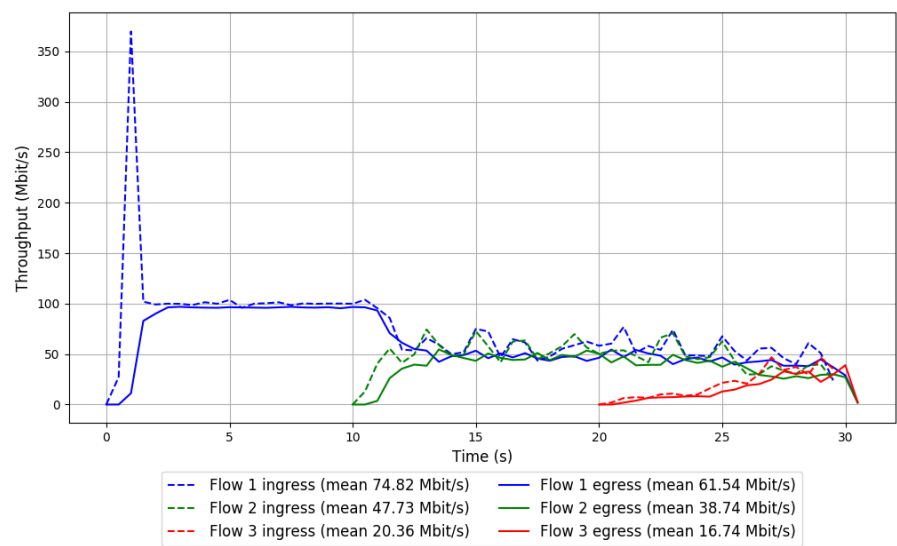


Run 7: Statistics of FillP

Start at: 2018-05-24 16:05:18  
End at: 2018-05-24 16:05:48  
Local clock offset: -2.341 ms  
Remote clock offset: -4.054 ms

# Below is generated by plot.py at 2018-05-24 17:16:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.84 Mbit/s  
95th percentile per-packet one-way delay: 114.061 ms  
Loss rate: 18.07%  
-- Flow 1:  
Average throughput: 61.54 Mbit/s  
95th percentile per-packet one-way delay: 114.133 ms  
Loss rate: 17.73%  
-- Flow 2:  
Average throughput: 38.74 Mbit/s  
95th percentile per-packet one-way delay: 108.301 ms  
Loss rate: 18.89%  
-- Flow 3:  
Average throughput: 16.74 Mbit/s  
95th percentile per-packet one-way delay: 108.246 ms  
Loss rate: 17.90%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-24 16:25:00

End at: 2018-05-24 16:25:30

Local clock offset: -2.175 ms

Remote clock offset: 4.638 ms

# Below is generated by plot.py at 2018-05-24 17:16:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.22 Mbit/s

95th percentile per-packet one-way delay: 112.797 ms

Loss rate: 16.66%

-- Flow 1:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 111.831 ms

Loss rate: 16.02%

-- Flow 2:

Average throughput: 38.37 Mbit/s

95th percentile per-packet one-way delay: 113.023 ms

Loss rate: 18.45%

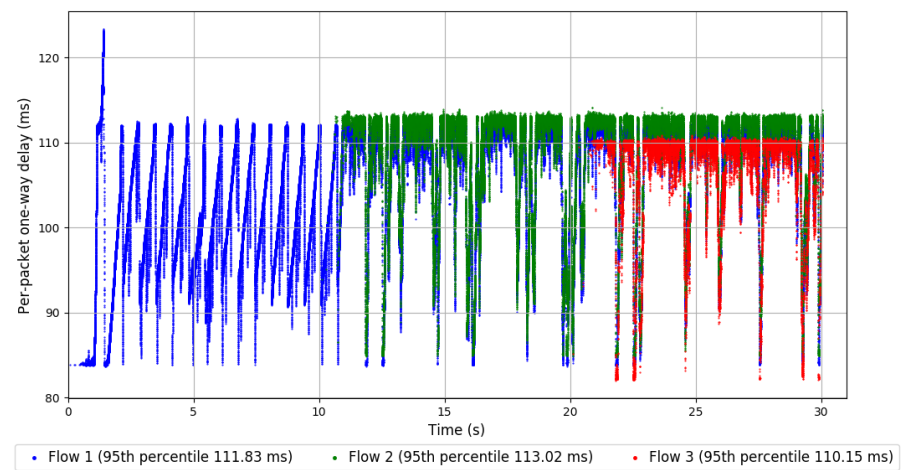
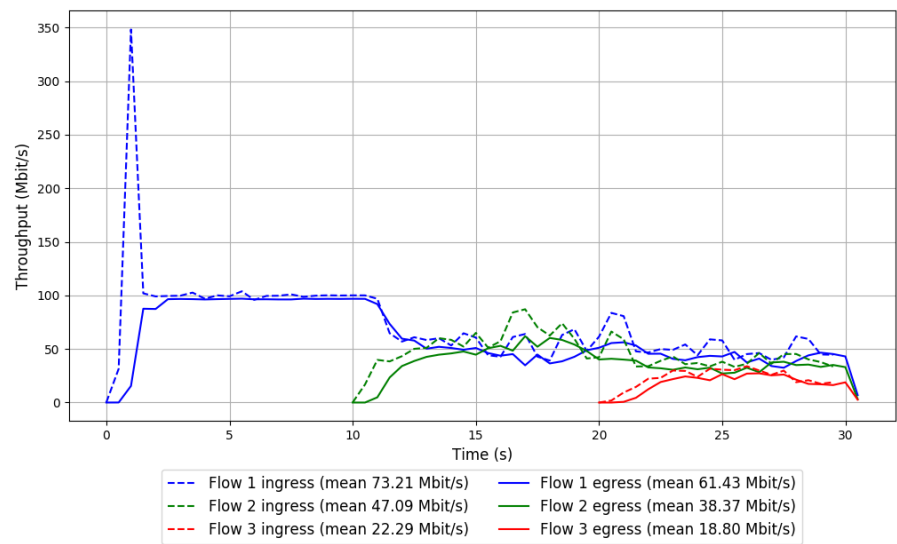
-- Flow 3:

Average throughput: 18.80 Mbit/s

95th percentile per-packet one-way delay: 110.149 ms

Loss rate: 15.42%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 16:44:38

End at: 2018-05-24 16:45:08

Local clock offset: -2.955 ms

Remote clock offset: 1.535 ms

# Below is generated by plot.py at 2018-05-24 17:17:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 112.848 ms

Loss rate: 19.61%

-- Flow 1:

Average throughput: 59.24 Mbit/s

95th percentile per-packet one-way delay: 112.946 ms

Loss rate: 17.80%

-- Flow 2:

Average throughput: 35.55 Mbit/s

95th percentile per-packet one-way delay: 108.836 ms

Loss rate: 21.81%

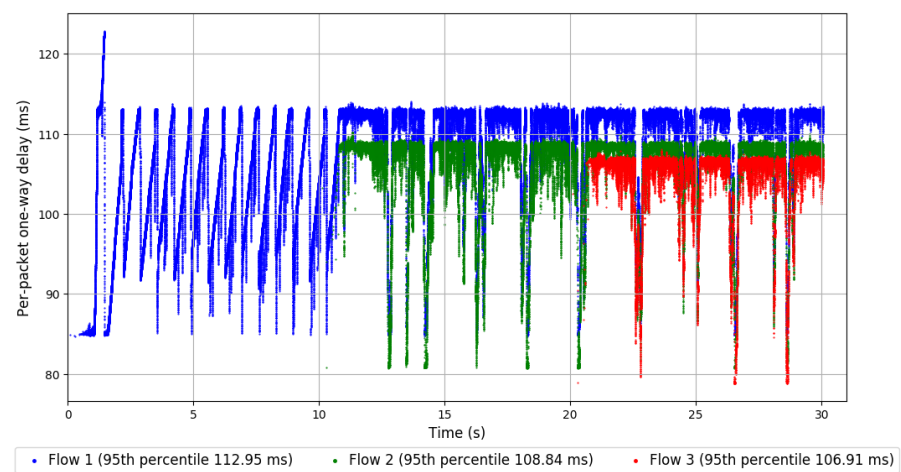
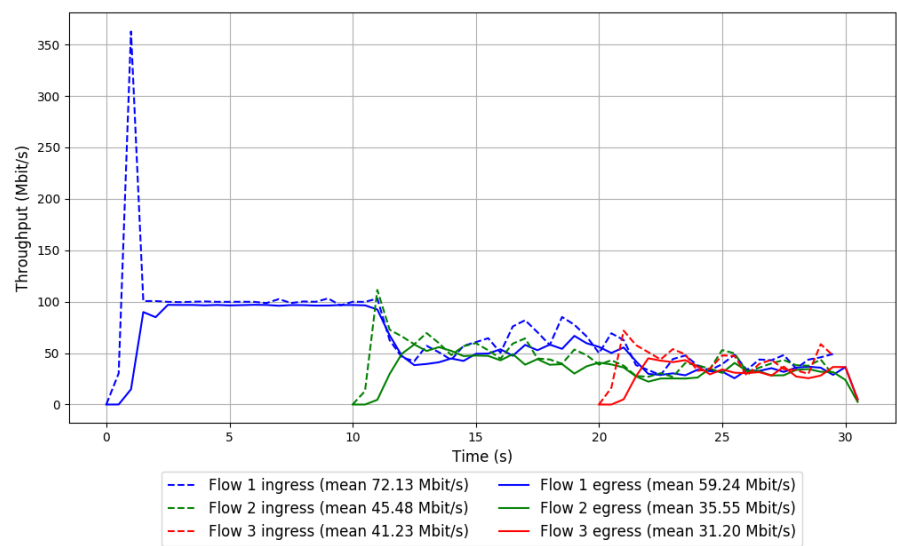
-- Flow 3:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 106.910 ms

Loss rate: 24.28%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-24 17:04:17

End at: 2018-05-24 17:04:47

Local clock offset: -2.108 ms

Remote clock offset: 2.77 ms

# Below is generated by plot.py at 2018-05-24 17:17:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 108.936 ms

Loss rate: 17.79%

-- Flow 1:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 109.018 ms

Loss rate: 17.64%

-- Flow 2:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 108.026 ms

Loss rate: 18.46%

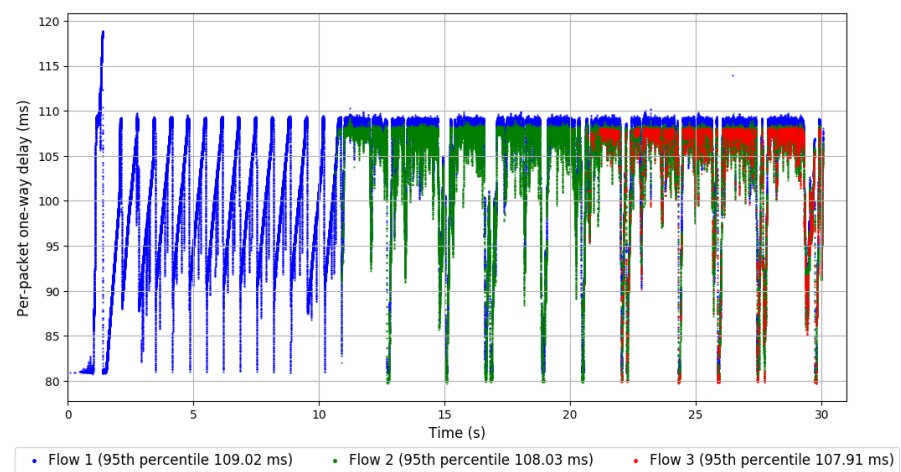
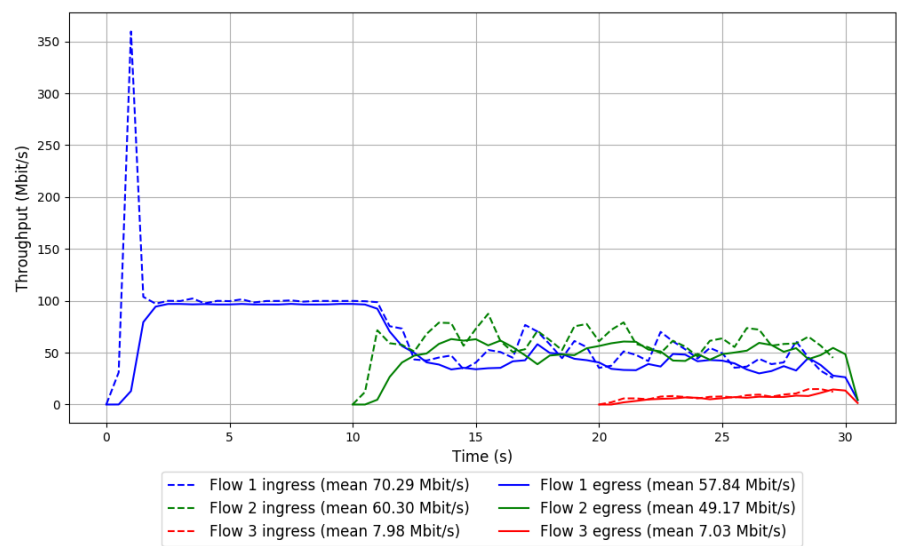
-- Flow 3:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 107.907 ms

Loss rate: 11.88%

Run 10: Report of FillP — Data Link

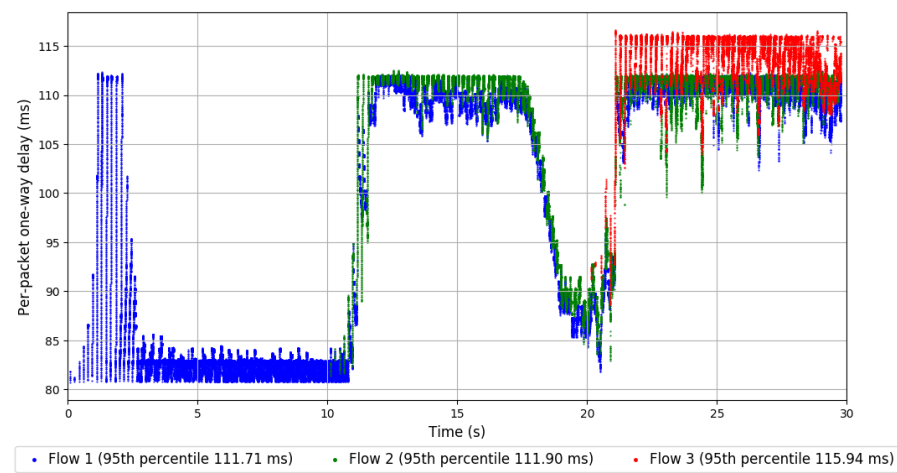
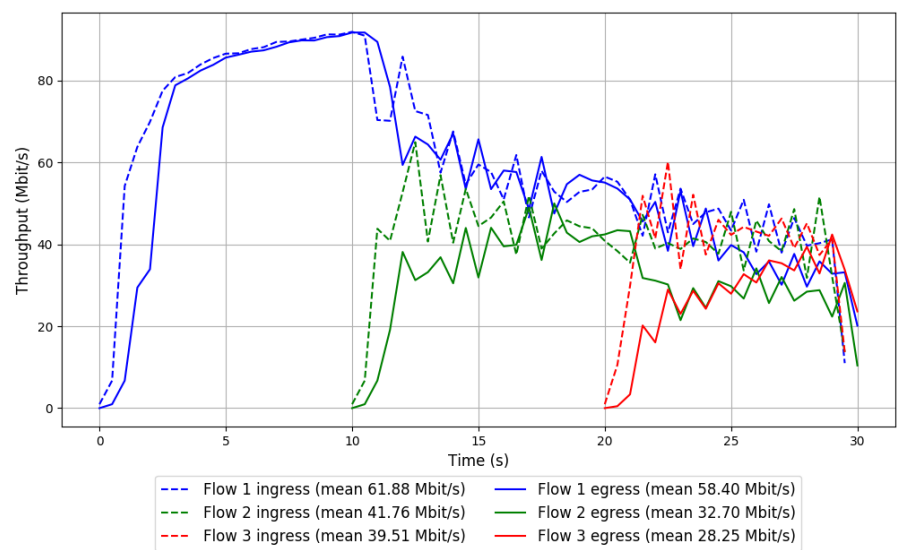


```
Run 1: Statistics of Indigo

Start at: 2018-05-24 14:08:32
End at: 2018-05-24 14:09:02
Local clock offset: -2.24 ms
Remote clock offset: 3.877 ms

# Below is generated by plot.py at 2018-05-24 17:17:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.11 Mbit/s
95th percentile per-packet one-way delay: 113.943 ms
Loss rate: 12.69%
-- Flow 1:
Average throughput: 58.40 Mbit/s
95th percentile per-packet one-way delay: 111.706 ms
Loss rate: 5.51%
-- Flow 2:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 111.902 ms
Loss rate: 21.57%
-- Flow 3:
Average throughput: 28.25 Mbit/s
95th percentile per-packet one-way delay: 115.940 ms
Loss rate: 28.33%
```

Run 1: Report of Indigo — Data Link

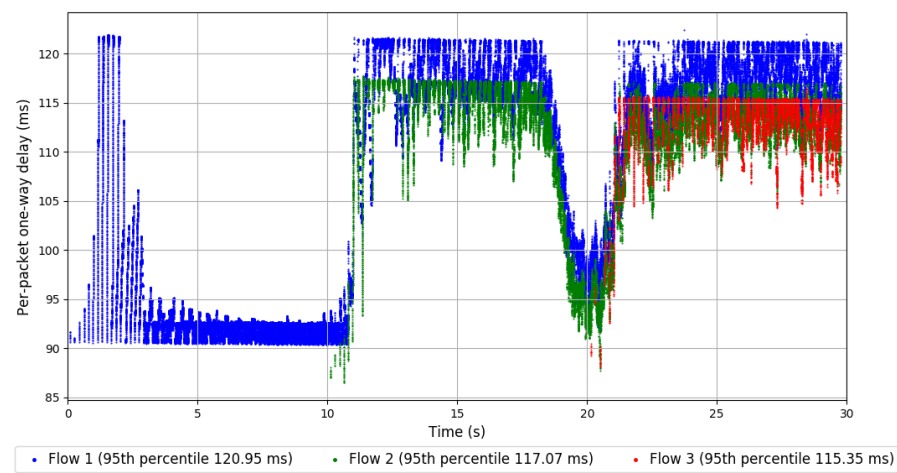
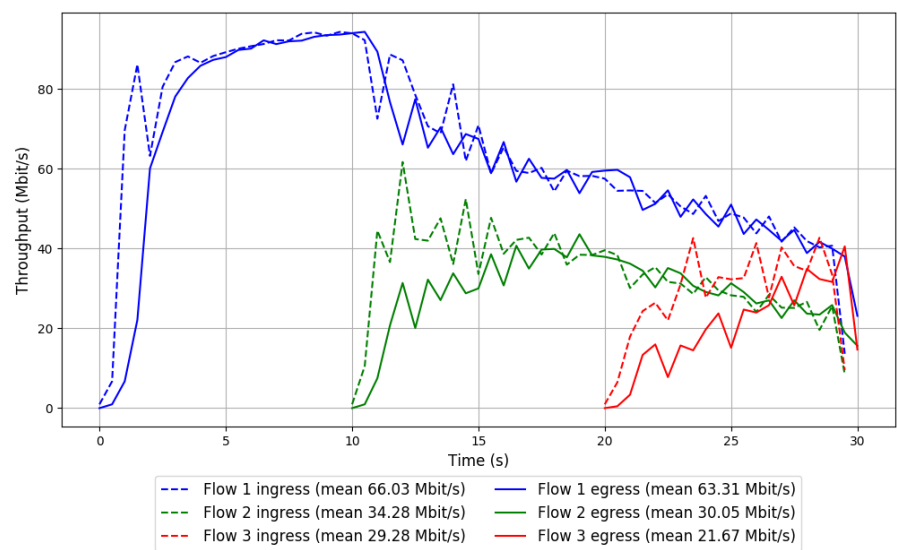


Run 2: Statistics of Indigo

Start at: 2018-05-24 14:28:12  
End at: 2018-05-24 14:28:42  
Local clock offset: -2.778 ms  
Remote clock offset: 14.711 ms

# Below is generated by plot.py at 2018-05-24 17:17:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.24 Mbit/s  
95th percentile per-packet one-way delay: 120.421 ms  
Loss rate: 8.04%  
-- Flow 1:  
Average throughput: 63.31 Mbit/s  
95th percentile per-packet one-way delay: 120.950 ms  
Loss rate: 4.05%  
-- Flow 2:  
Average throughput: 30.05 Mbit/s  
95th percentile per-packet one-way delay: 117.070 ms  
Loss rate: 12.20%  
-- Flow 3:  
Average throughput: 21.67 Mbit/s  
95th percentile per-packet one-way delay: 115.346 ms  
Loss rate: 25.84%

Run 2: Report of Indigo — Data Link

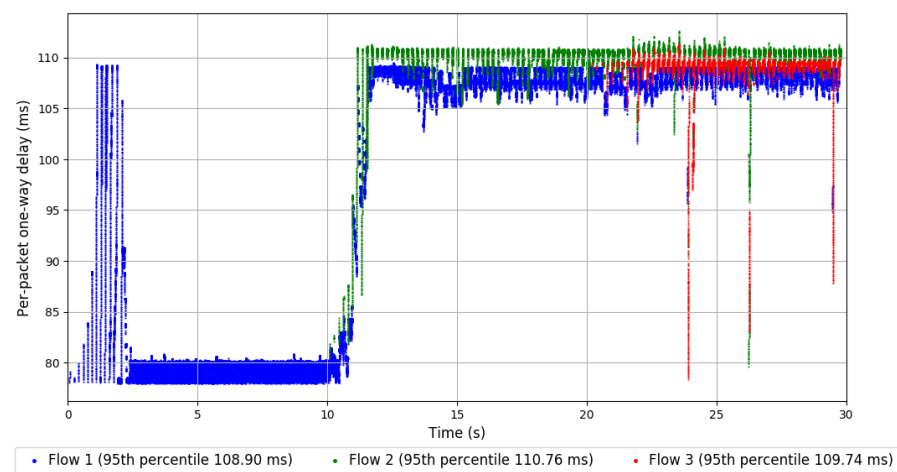
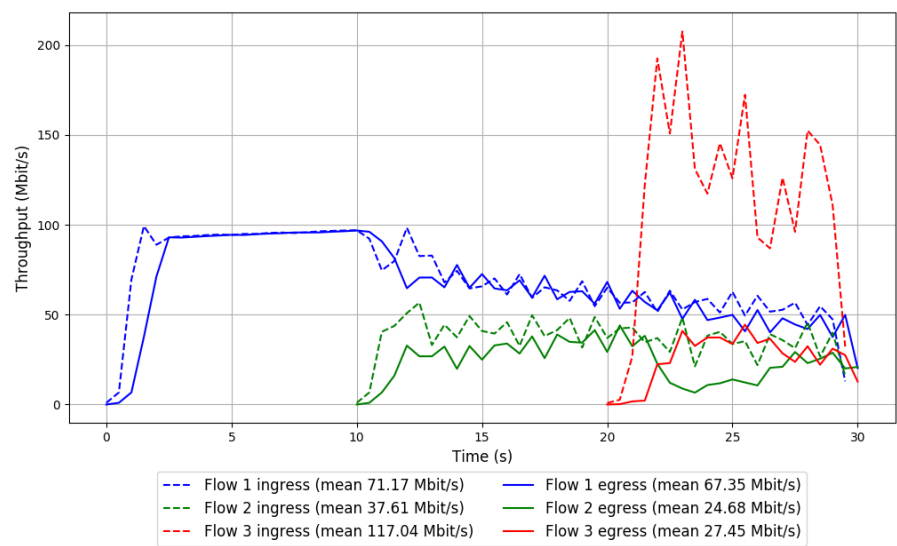


Run 3: Statistics of Indigo

Start at: 2018-05-24 14:47:52  
End at: 2018-05-24 14:48:22  
Local clock offset: -1.832 ms  
Remote clock offset: 19.286 ms

# Below is generated by plot.py at 2018-05-24 17:17:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.40 Mbit/s  
95th percentile per-packet one-way delay: 110.568 ms  
Loss rate: 30.79%  
-- Flow 1:  
Average throughput: 67.35 Mbit/s  
95th percentile per-packet one-way delay: 108.903 ms  
Loss rate: 5.26%  
-- Flow 2:  
Average throughput: 24.68 Mbit/s  
95th percentile per-packet one-way delay: 110.763 ms  
Loss rate: 34.27%  
-- Flow 3:  
Average throughput: 27.45 Mbit/s  
95th percentile per-packet one-way delay: 109.744 ms  
Loss rate: 76.54%

Run 3: Report of Indigo — Data Link

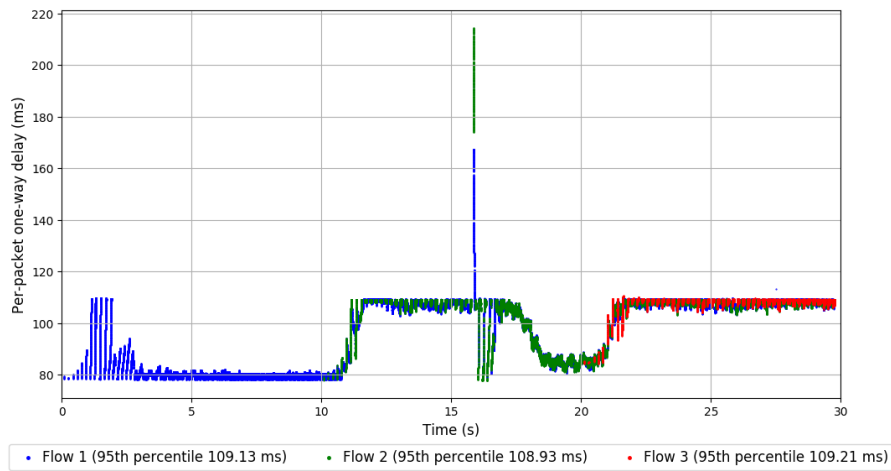
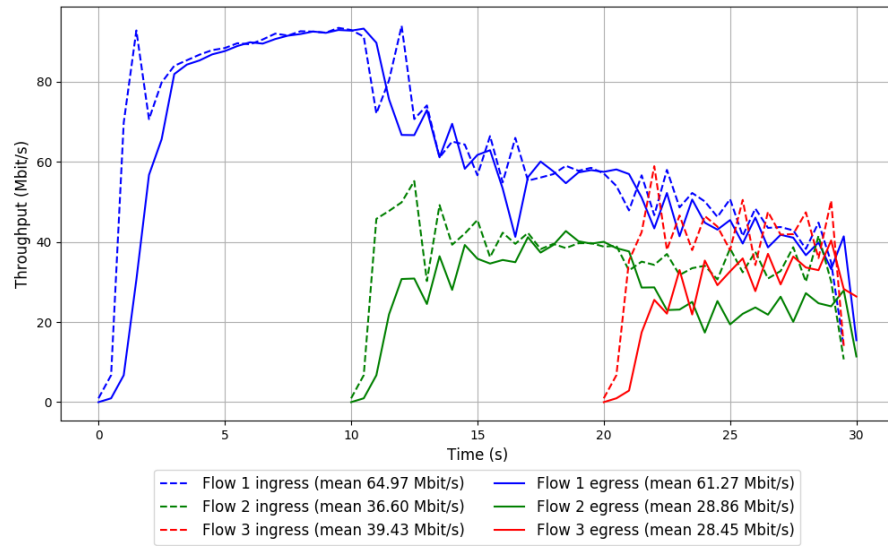


Run 4: Statistics of Indigo

Start at: 2018-05-24 15:07:32  
End at: 2018-05-24 15:08:02  
Local clock offset: -1.27 ms  
Remote clock offset: 23.525 ms

# Below is generated by plot.py at 2018-05-24 17:17:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.58 Mbit/s  
95th percentile per-packet one-way delay: 109.132 ms  
Loss rate: 12.04%  
-- Flow 1:  
Average throughput: 61.27 Mbit/s  
95th percentile per-packet one-way delay: 109.130 ms  
Loss rate: 5.60%  
-- Flow 2:  
Average throughput: 28.86 Mbit/s  
95th percentile per-packet one-way delay: 108.929 ms  
Loss rate: 21.02%  
-- Flow 3:  
Average throughput: 28.45 Mbit/s  
95th percentile per-packet one-way delay: 109.208 ms  
Loss rate: 27.67%

# Run 4: Report of Indigo — Data Link

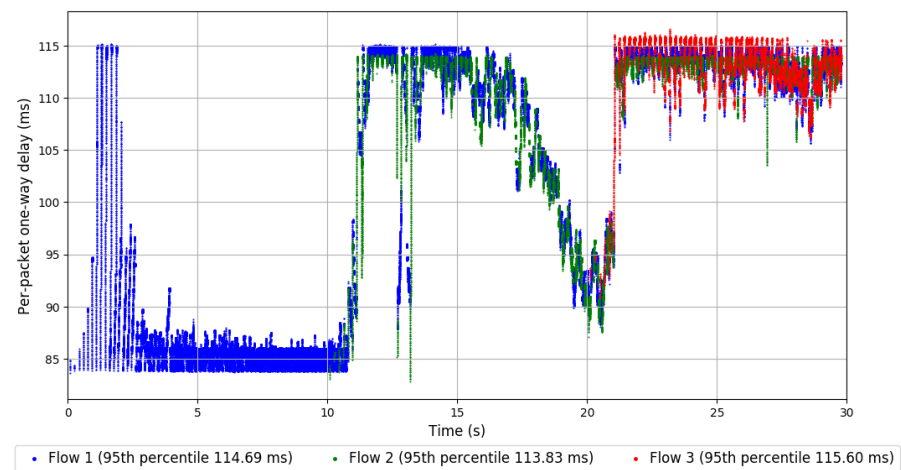
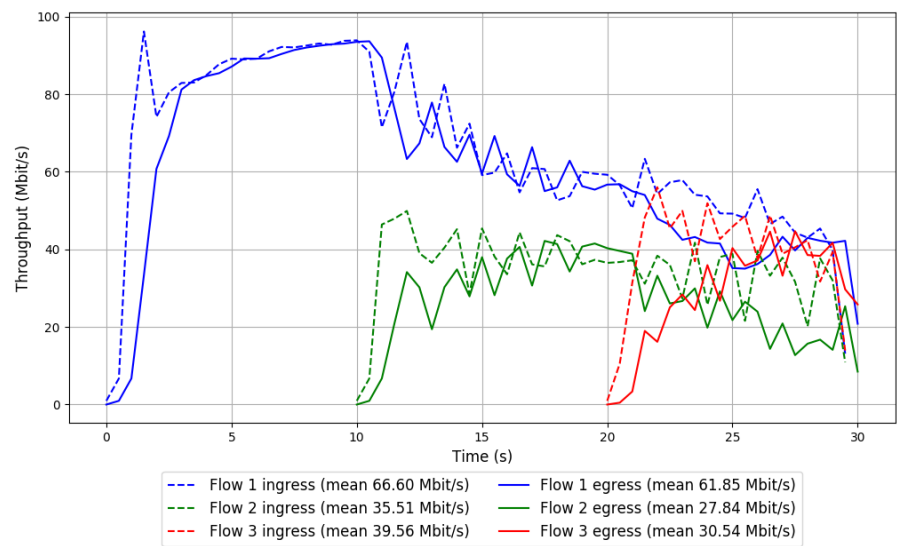


Run 5: Statistics of Indigo

Start at: 2018-05-24 15:27:13  
End at: 2018-05-24 15:27:43  
Local clock offset: -2.054 ms  
Remote clock offset: 31.749 ms

# Below is generated by plot.py at 2018-05-24 17:17:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.11 Mbit/s  
95th percentile per-packet one-way delay: 114.742 ms  
Loss rate: 12.27%  
-- Flow 1:  
Average throughput: 61.85 Mbit/s  
95th percentile per-packet one-way delay: 114.688 ms  
Loss rate: 7.05%  
-- Flow 2:  
Average throughput: 27.84 Mbit/s  
95th percentile per-packet one-way delay: 113.827 ms  
Loss rate: 21.47%  
-- Flow 3:  
Average throughput: 30.54 Mbit/s  
95th percentile per-packet one-way delay: 115.597 ms  
Loss rate: 22.64%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-24 15:46:54

End at: 2018-05-24 15:47:24

Local clock offset: -3.234 ms

Remote clock offset: 5.158 ms

# Below is generated by plot.py at 2018-05-24 17:17:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 116.030 ms

Loss rate: 9.96%

-- Flow 1:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 112.454 ms

Loss rate: 4.07%

-- Flow 2:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 117.011 ms

Loss rate: 11.52%

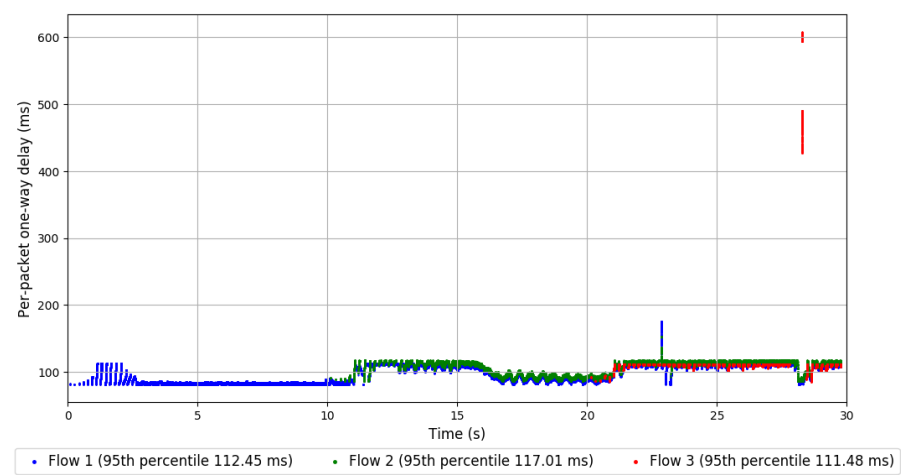
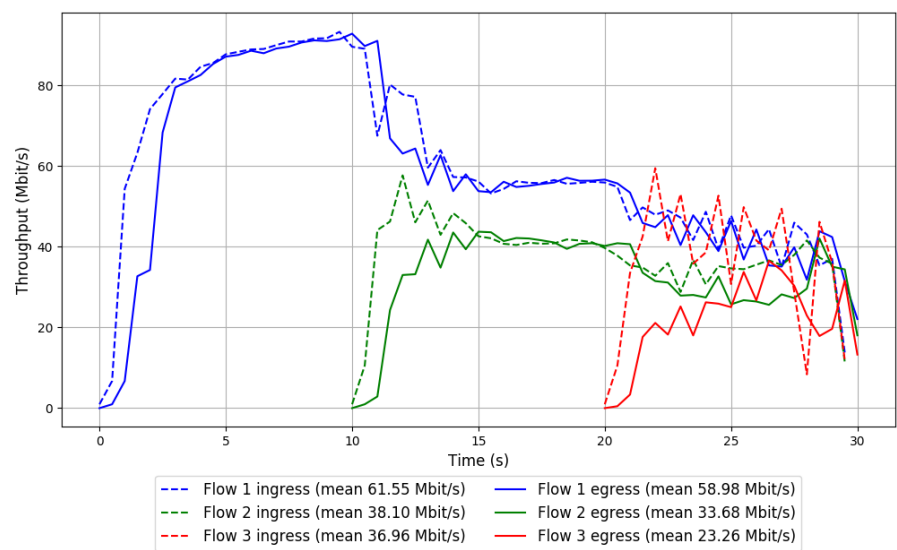
-- Flow 3:

Average throughput: 23.26 Mbit/s

95th percentile per-packet one-way delay: 111.476 ms

Loss rate: 36.94%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-24 16:06:34

End at: 2018-05-24 16:07:04

Local clock offset: -2.329 ms

Remote clock offset: 1.665 ms

# Below is generated by plot.py at 2018-05-24 17:18:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 115.635 ms

Loss rate: 25.37%

-- Flow 1:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 114.745 ms

Loss rate: 9.84%

-- Flow 2:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 116.418 ms

Loss rate: 20.91%

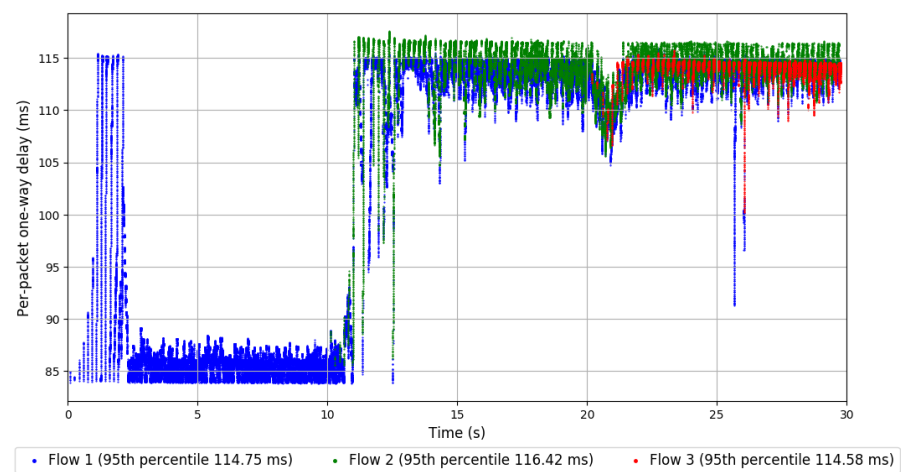
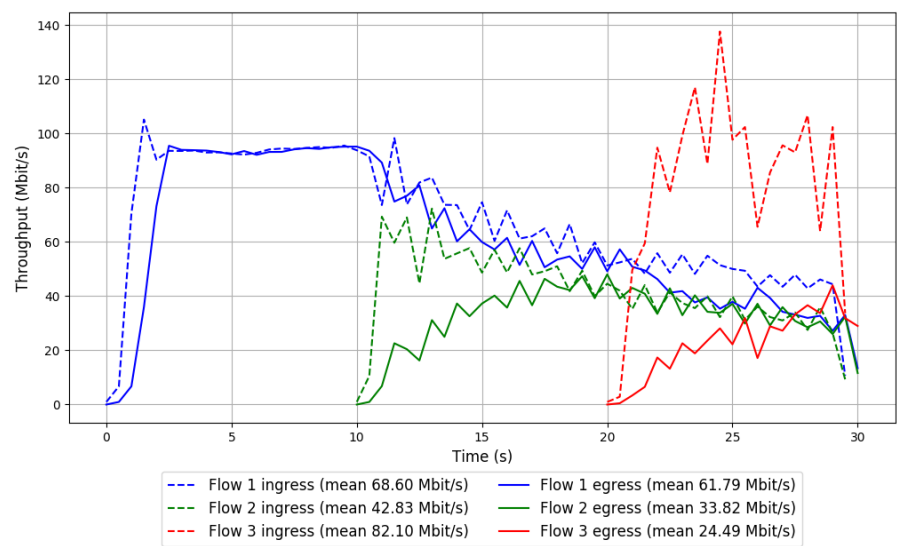
-- Flow 3:

Average throughput: 24.49 Mbit/s

95th percentile per-packet one-way delay: 114.584 ms

Loss rate: 70.17%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-24 16:26:15

End at: 2018-05-24 16:26:45

Local clock offset: -2.172 ms

Remote clock offset: 5.429 ms

# Below is generated by plot.py at 2018-05-24 17:18:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.15 Mbit/s

95th percentile per-packet one-way delay: 114.137 ms

Loss rate: 16.07%

-- Flow 1:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 113.999 ms

Loss rate: 6.39%

-- Flow 2:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 114.060 ms

Loss rate: 21.43%

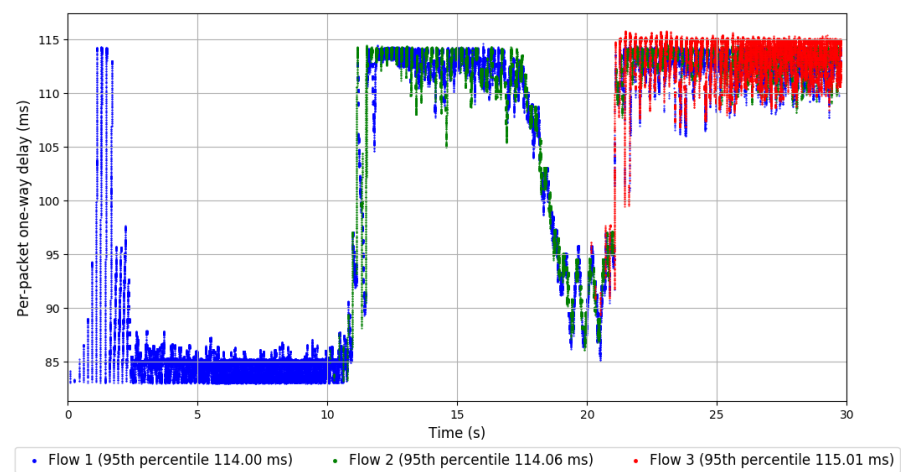
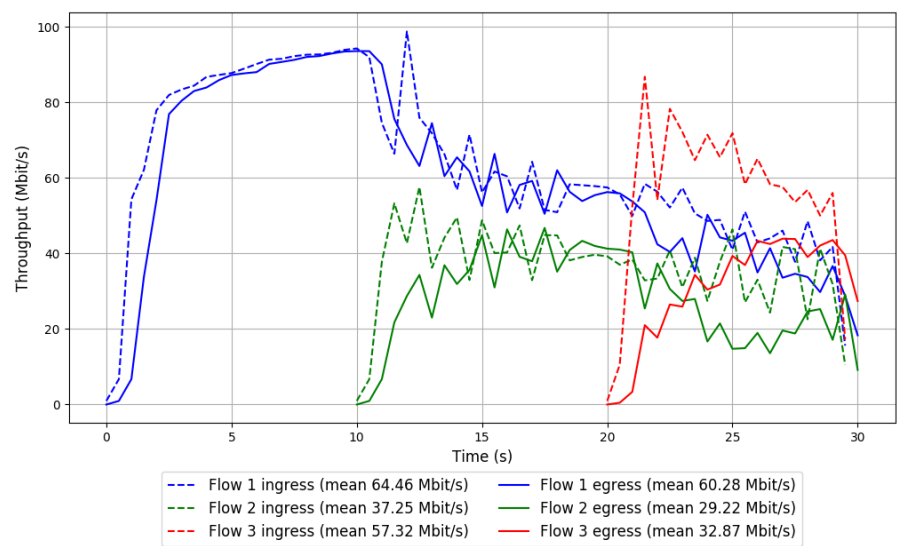
-- Flow 3:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 115.014 ms

Loss rate: 42.55%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-24 16:45:54

End at: 2018-05-24 16:46:24

Local clock offset: -3.002 ms

Remote clock offset: 2.549 ms

# Below is generated by plot.py at 2018-05-24 17:18:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.95 Mbit/s

95th percentile per-packet one-way delay: 117.625 ms

Loss rate: 15.43%

-- Flow 1:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 112.557 ms

Loss rate: 10.99%

-- Flow 2:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 118.384 ms

Loss rate: 14.73%

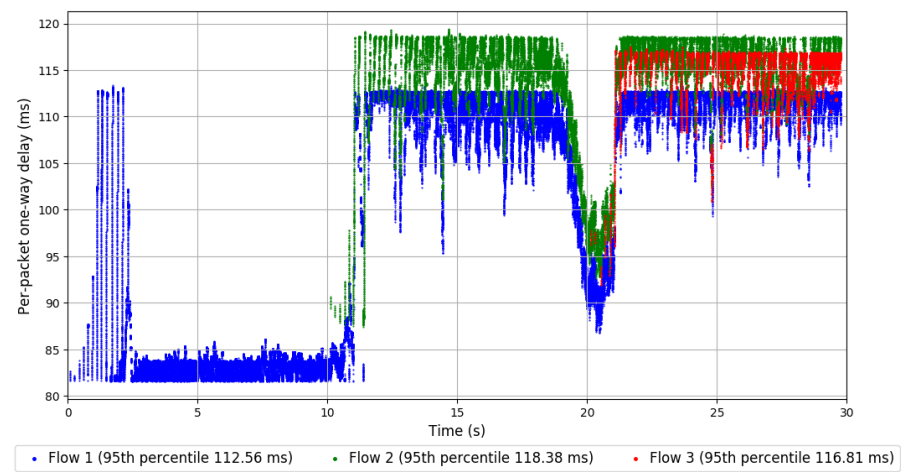
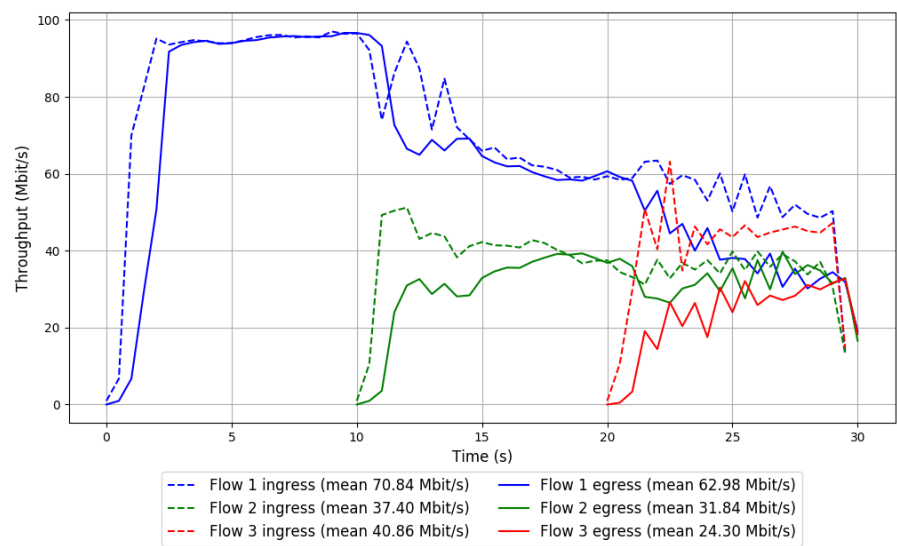
-- Flow 3:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 116.807 ms

Loss rate: 40.42%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 17:05:33

End at: 2018-05-24 17:06:03

Local clock offset: -2.922 ms

Remote clock offset: 6.627 ms

# Below is generated by plot.py at 2018-05-24 17:18:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 115.573 ms

Loss rate: 14.46%

-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 114.223 ms

Loss rate: 11.06%

-- Flow 2:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 115.667 ms

Loss rate: 14.69%

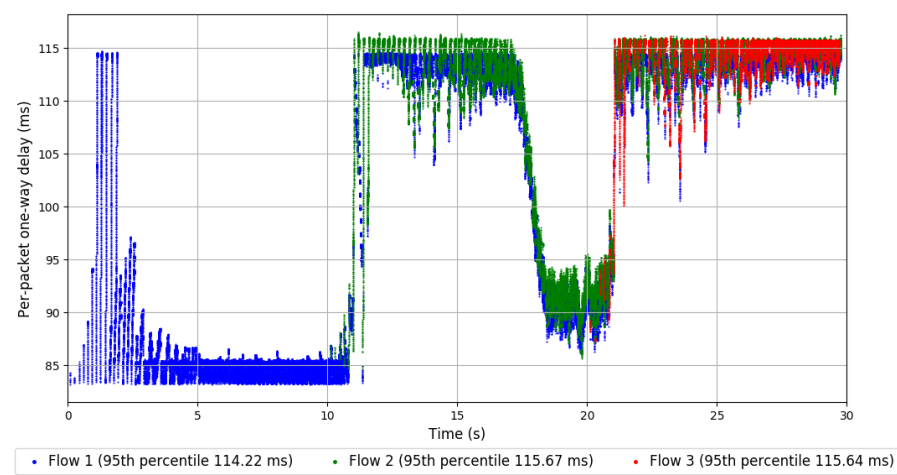
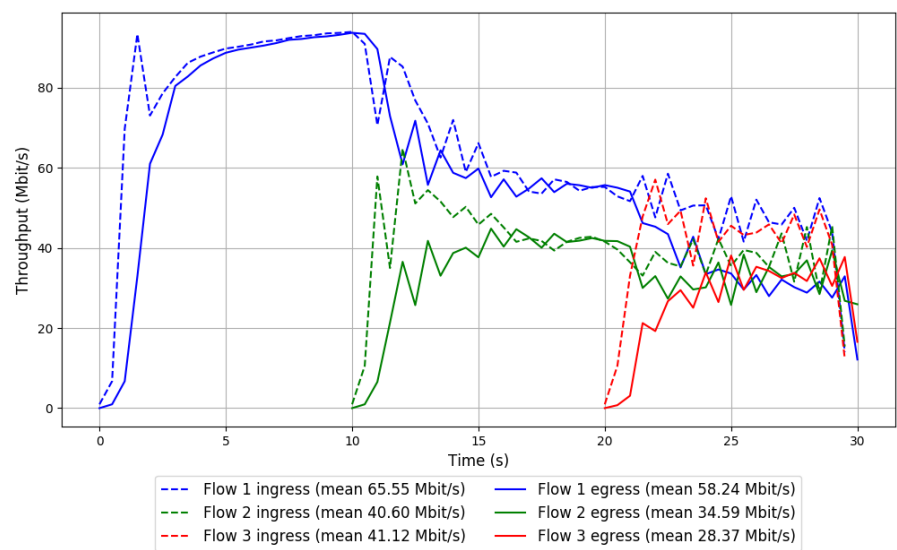
-- Flow 3:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 115.645 ms

Loss rate: 30.81%

Run 10: Report of Indigo — Data Link

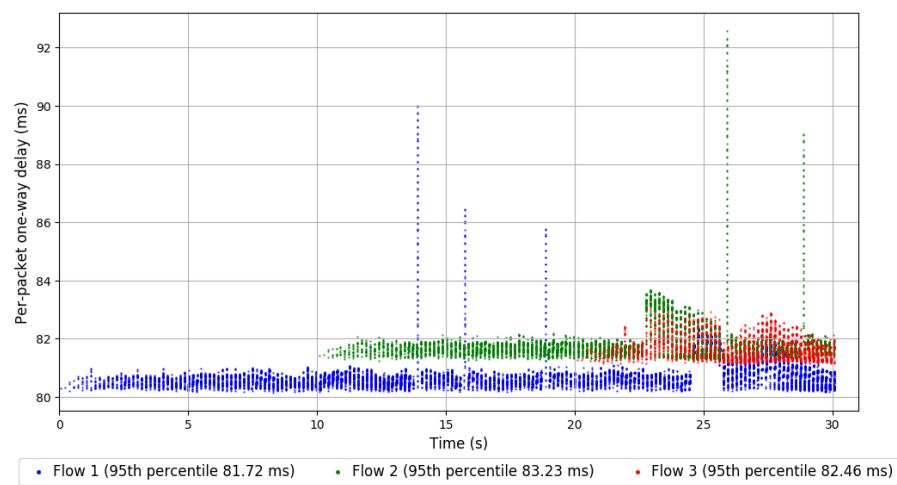
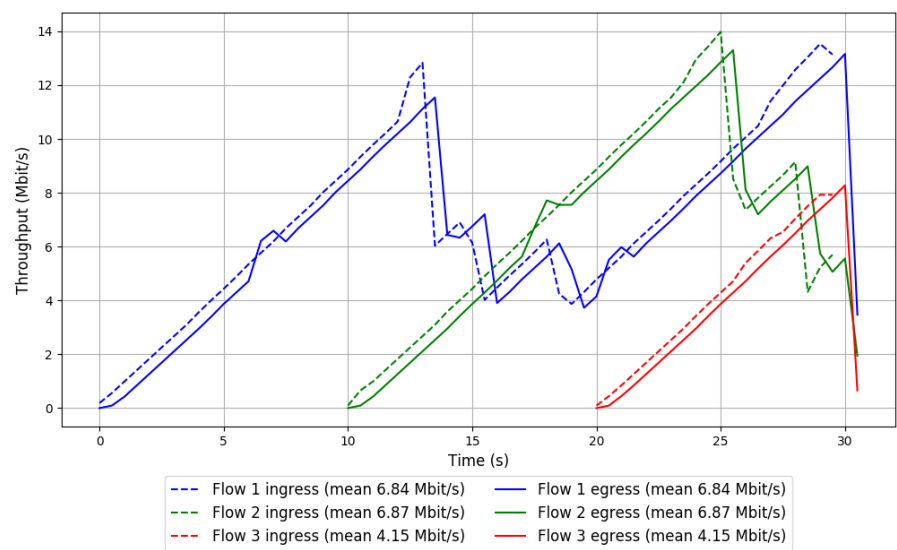


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-24 14:01:10
End at: 2018-05-24 14:01:40
Local clock offset: -2.393 ms
Remote clock offset: 4.093 ms

# Below is generated by plot.py at 2018-05-24 17:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 82.601 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 81.718 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 83.229 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 82.461 ms
Loss rate: 0.03%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-24 14:20:50

End at: 2018-05-24 14:21:20

Local clock offset: -2.063 ms

Remote clock offset: 3.635 ms

# Below is generated by plot.py at 2018-05-24 17:18:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 81.592 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 81.087 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 82.170 ms

Loss rate: 0.00%

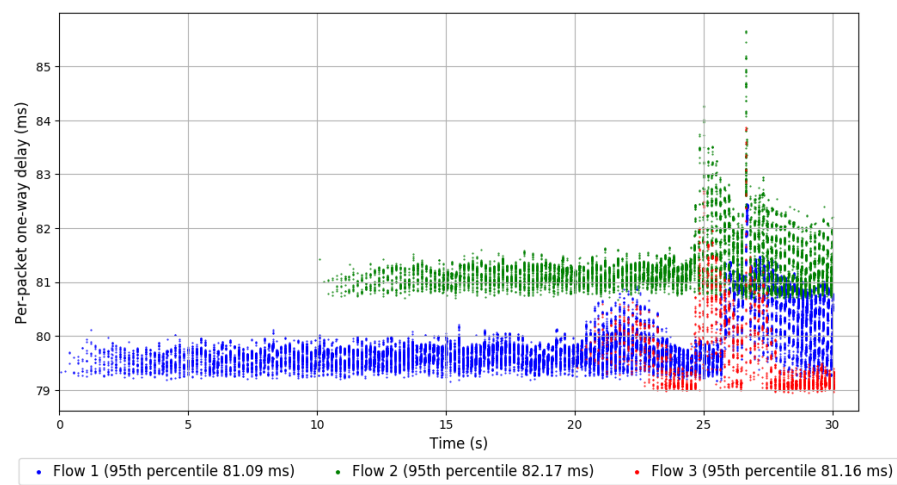
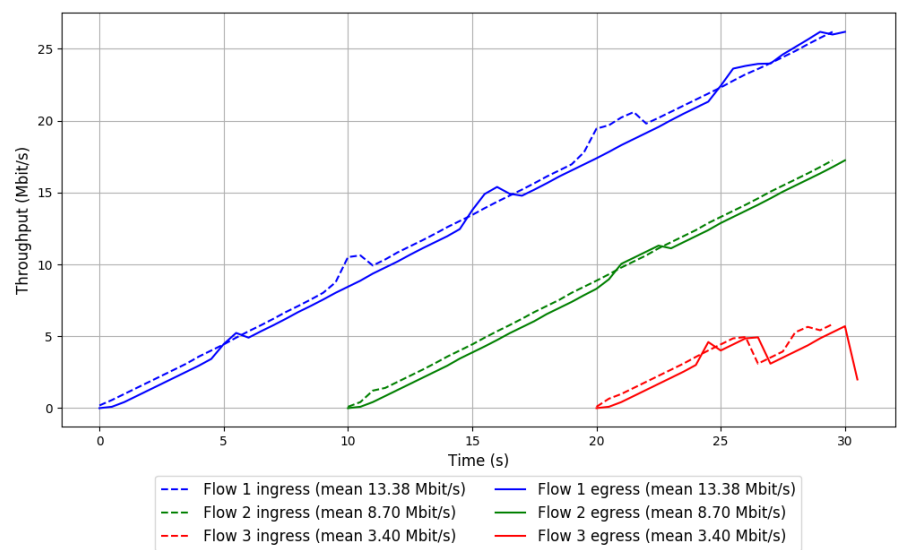
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 81.159 ms

Loss rate: 0.03%

Run 2: Report of LEDBAT — Data Link

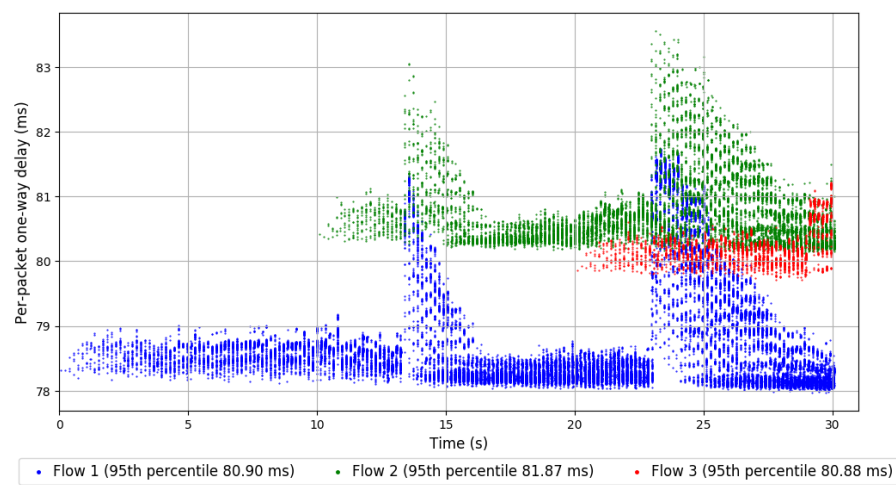
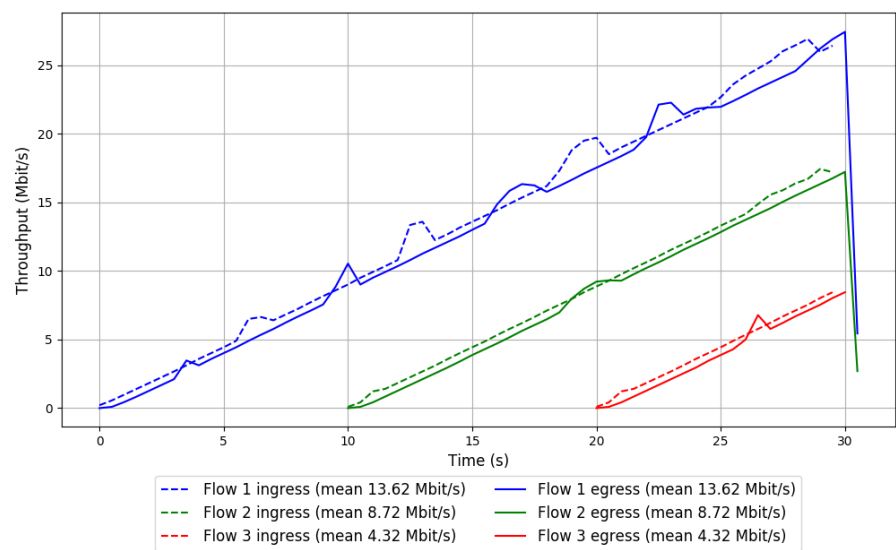


Run 3: Statistics of LEDBAT

Start at: 2018-05-24 14:40:29  
End at: 2018-05-24 14:40:59  
Local clock offset: -1.891 ms  
Remote clock offset: 16.917 ms

# Below is generated by plot.py at 2018-05-24 17:18:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.84 Mbit/s  
95th percentile per-packet one-way delay: 81.307 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.62 Mbit/s  
95th percentile per-packet one-way delay: 80.901 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.72 Mbit/s  
95th percentile per-packet one-way delay: 81.870 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: 80.879 ms  
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

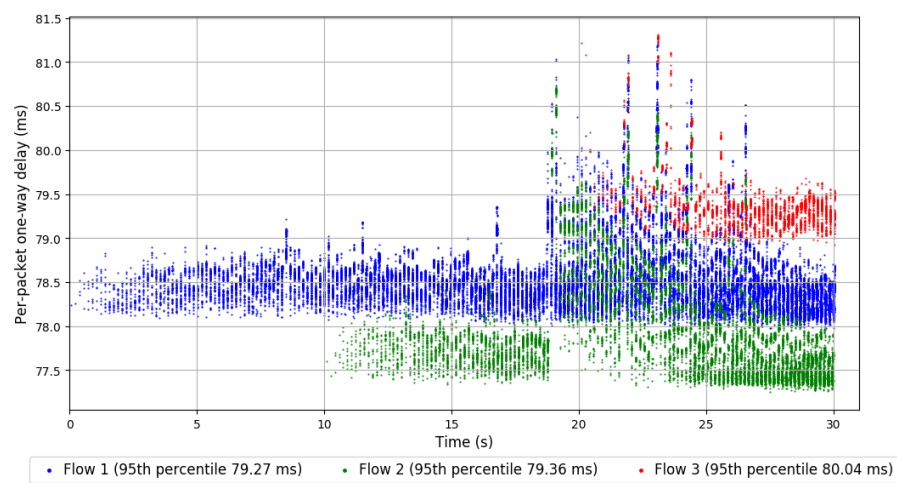
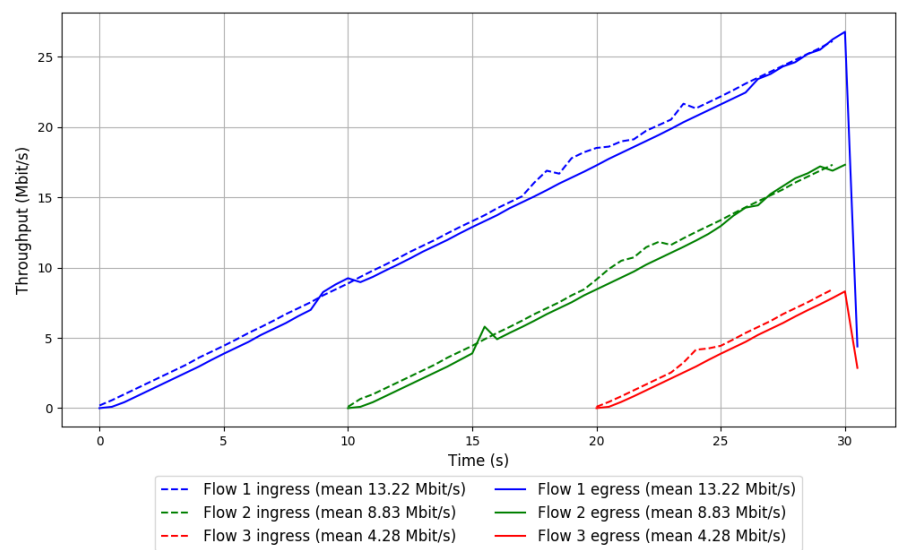


Run 4: Statistics of LEDBAT

Start at: 2018-05-24 15:00:10  
End at: 2018-05-24 15:00:40  
Local clock offset: -1.116 ms  
Remote clock offset: 22.075 ms

# Below is generated by plot.py at 2018-05-24 17:18:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.50 Mbit/s  
95th percentile per-packet one-way delay: 79.431 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.22 Mbit/s  
95th percentile per-packet one-way delay: 79.270 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.83 Mbit/s  
95th percentile per-packet one-way delay: 79.362 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 80.042 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

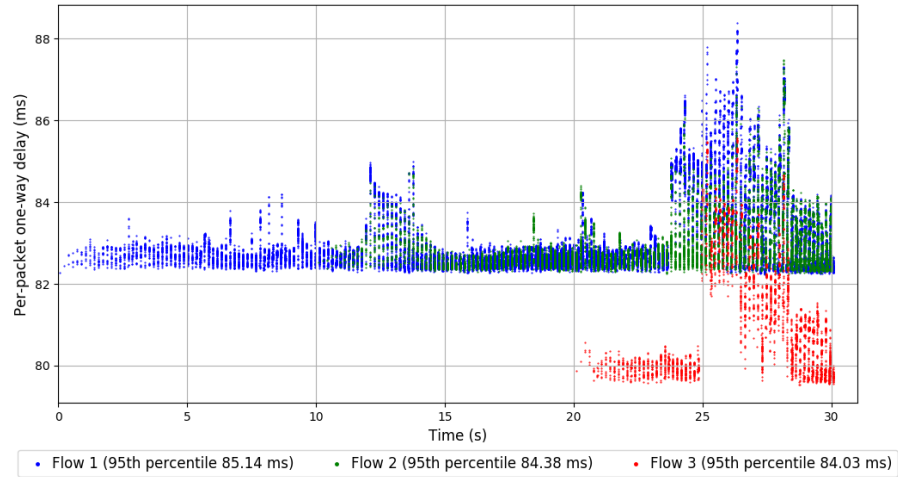
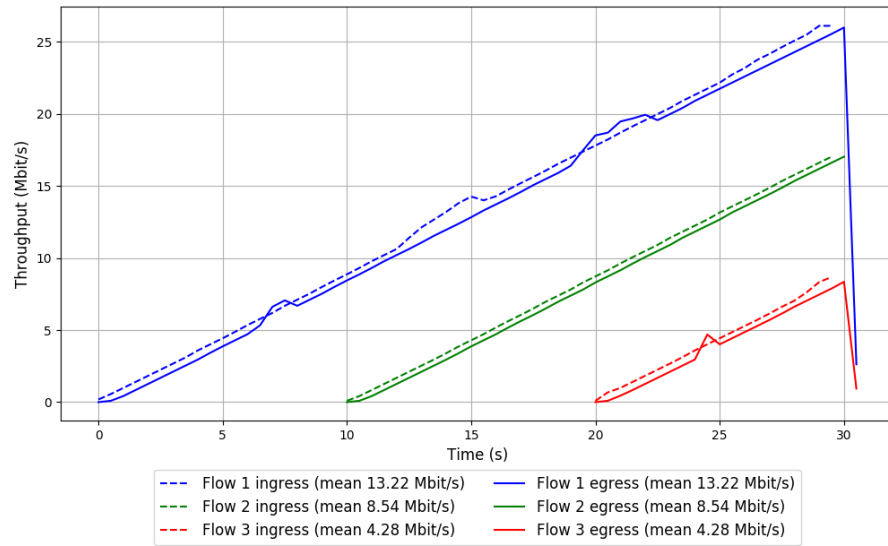


Run 5: Statistics of LEDBAT

Start at: 2018-05-24 15:19:50  
End at: 2018-05-24 15:20:20  
Local clock offset: -2.7 ms  
Remote clock offset: 26.439 ms

# Below is generated by plot.py at 2018-05-24 17:18:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.31 Mbit/s  
95th percentile per-packet one-way delay: 85.024 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 13.22 Mbit/s  
95th percentile per-packet one-way delay: 85.137 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 8.54 Mbit/s  
95th percentile per-packet one-way delay: 84.383 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 84.026 ms  
Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link

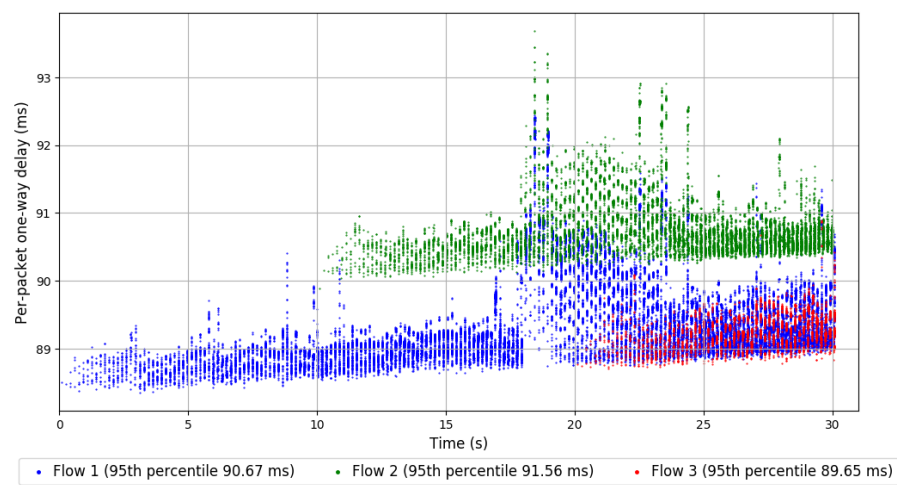
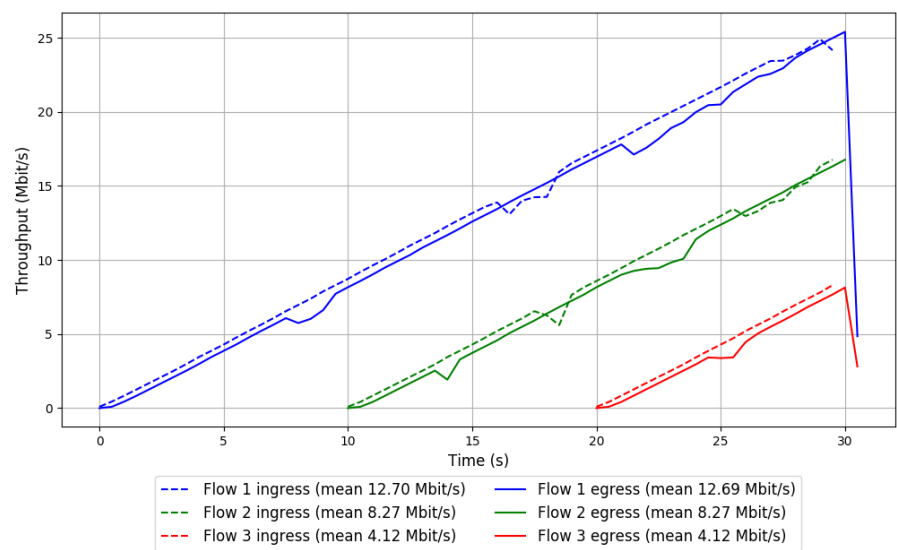


Run 6: Statistics of LEDBAT

Start at: 2018-05-24 15:39:31  
End at: 2018-05-24 15:40:01  
Local clock offset: -2.301 ms  
Remote clock offset: 15.636 ms

# Below is generated by plot.py at 2018-05-24 17:18:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.54 Mbit/s  
95th percentile per-packet one-way delay: 91.118 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 90.672 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 8.27 Mbit/s  
95th percentile per-packet one-way delay: 91.562 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.12 Mbit/s  
95th percentile per-packet one-way delay: 89.648 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

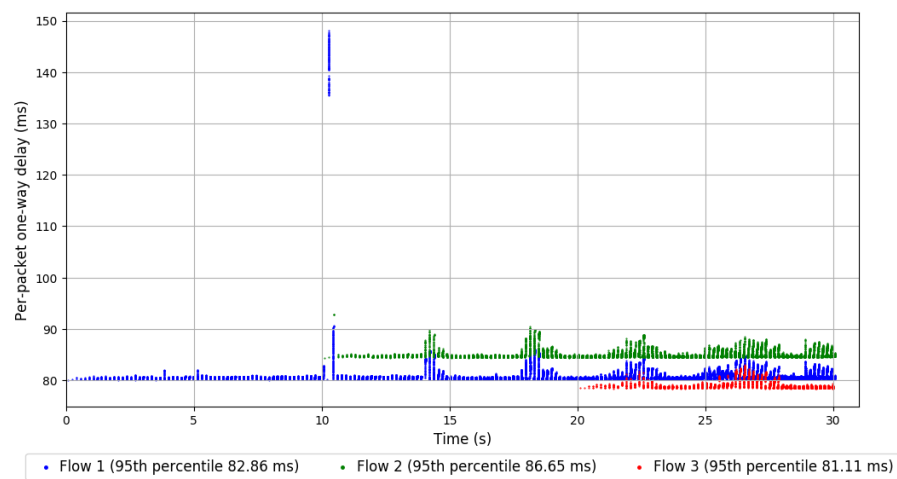
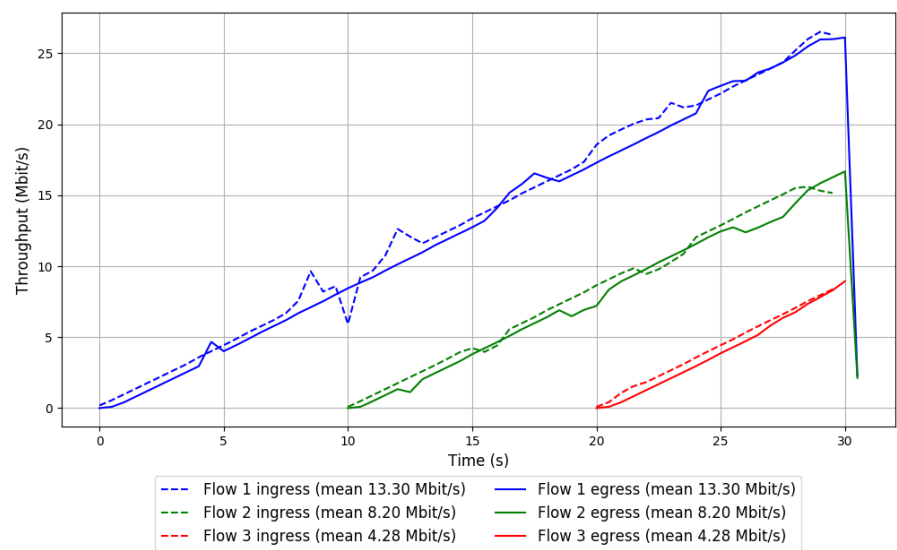


Run 7: Statistics of LEDBAT

Start at: 2018-05-24 15:59:12  
End at: 2018-05-24 15:59:42  
Local clock offset: -1.641 ms  
Remote clock offset: -1.14 ms

# Below is generated by plot.py at 2018-05-24 17:18:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.17 Mbit/s  
95th percentile per-packet one-way delay: 85.544 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 13.30 Mbit/s  
95th percentile per-packet one-way delay: 82.864 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.20 Mbit/s  
95th percentile per-packet one-way delay: 86.652 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 81.111 ms  
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 16:18:53

End at: 2018-05-24 16:19:23

Local clock offset: -3.034 ms

Remote clock offset: 1.382 ms

# Below is generated by plot.py at 2018-05-24 17:18:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.31 Mbit/s

95th percentile per-packet one-way delay: 81.993 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 81.020 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 80.936 ms

Loss rate: 0.01%

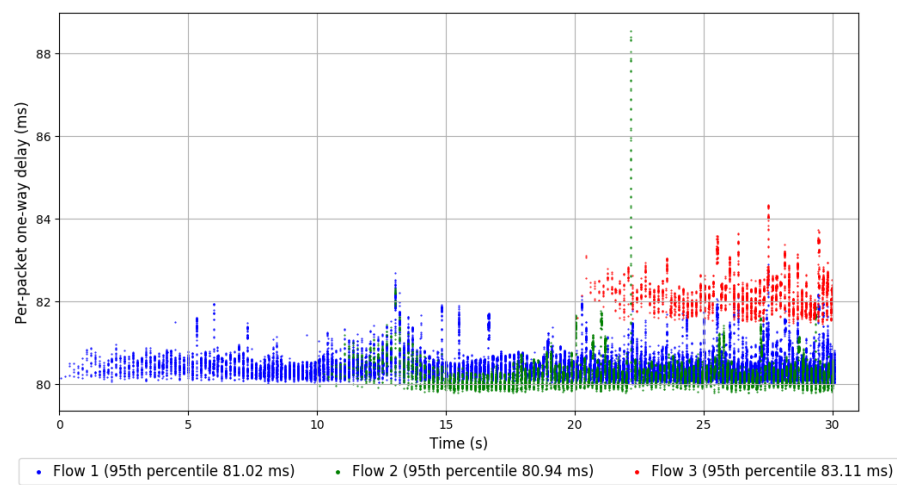
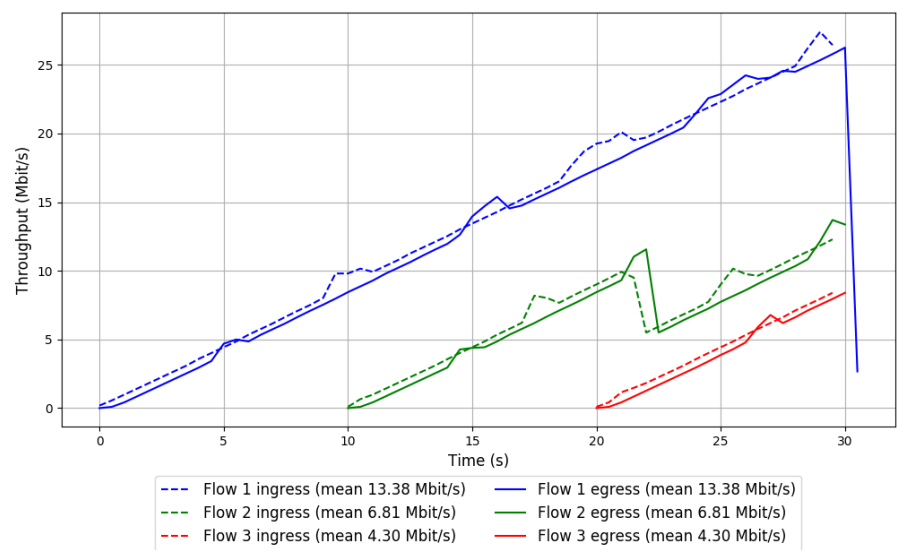
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 83.113 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-24 16:38:32

End at: 2018-05-24 16:39:02

Local clock offset: -3.031 ms

Remote clock offset: 4.899 ms

# Below is generated by plot.py at 2018-05-24 17:18:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.82 Mbit/s

95th percentile per-packet one-way delay: 87.616 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 87.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 88.191 ms

Loss rate: 0.03%

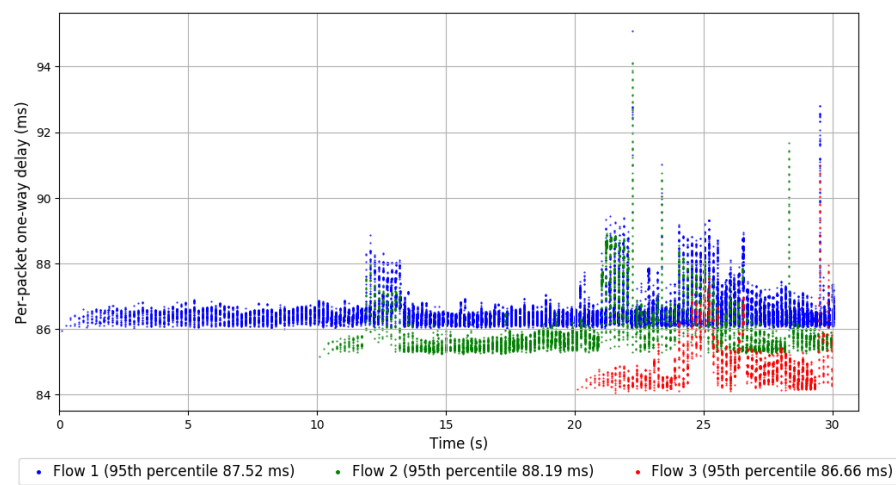
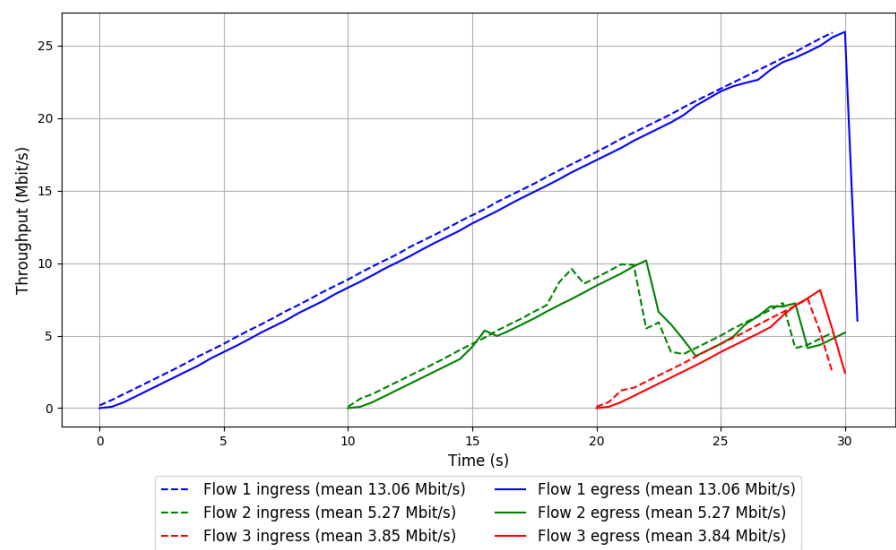
-- Flow 3:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 0.06%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-24 16:58:11

End at: 2018-05-24 16:58:41

Local clock offset: -2.132 ms

Remote clock offset: 6.44 ms

# Below is generated by plot.py at 2018-05-24 17:18:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 84.622 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 84.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 84.704 ms

Loss rate: 0.00%

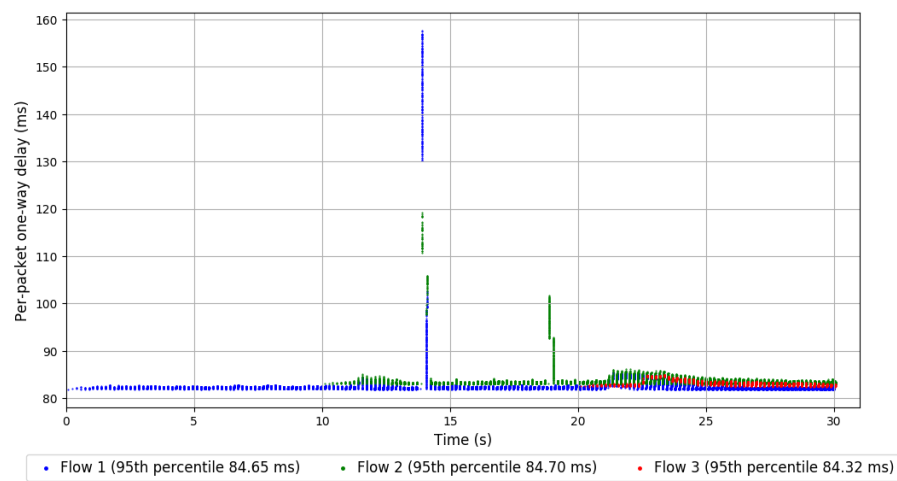
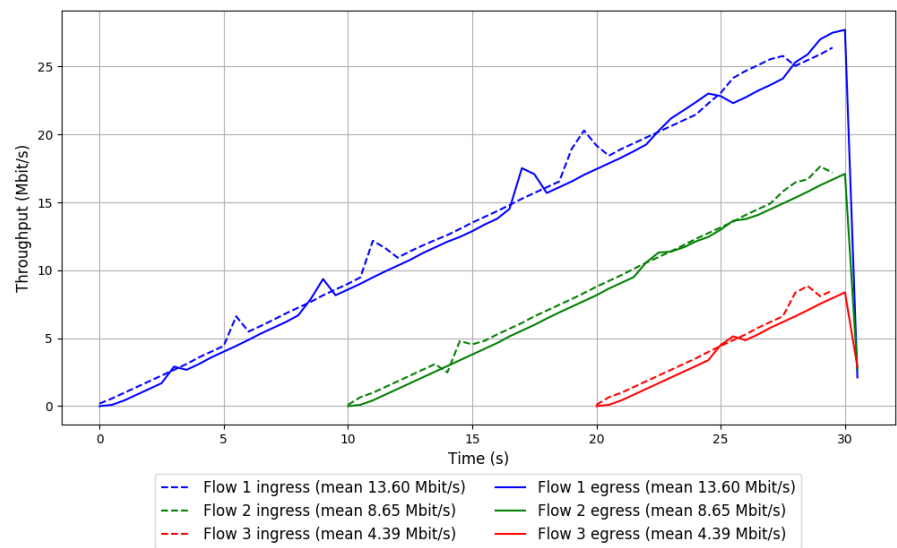
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 84.323 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

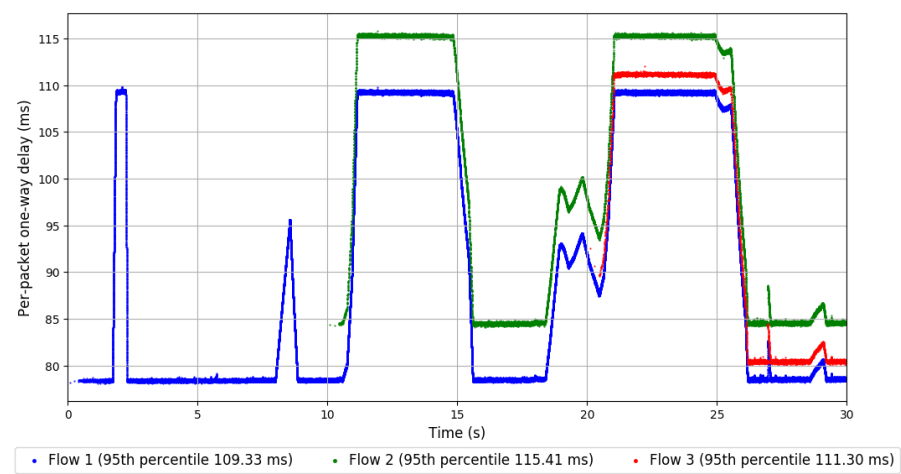
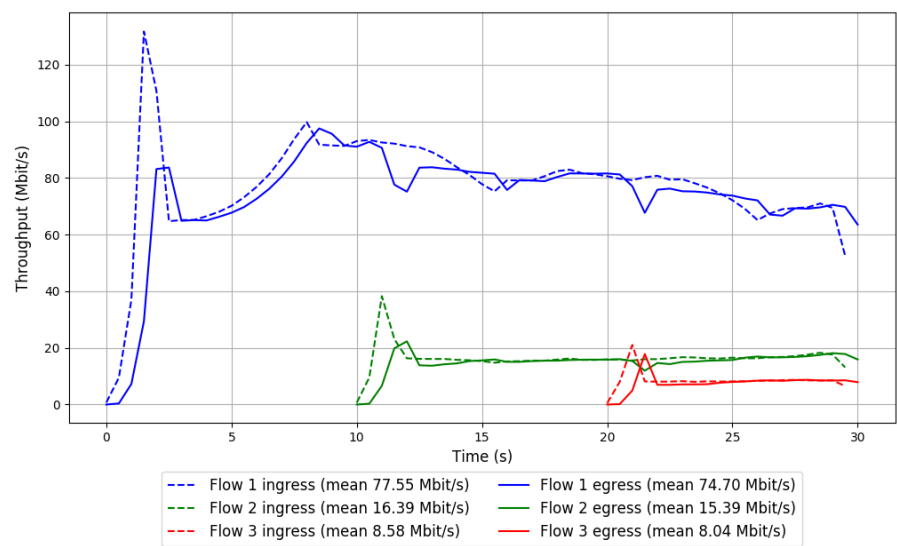


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 13:52:38
End at: 2018-05-24 13:53:08
Local clock offset: -1.862 ms
Remote clock offset: 4.699 ms

# Below is generated by plot.py at 2018-05-24 17:19:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 111.393 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 74.70 Mbit/s
95th percentile per-packet one-way delay: 109.334 ms
Loss rate: 3.67%
-- Flow 2:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 115.409 ms
Loss rate: 6.11%
-- Flow 3:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 111.297 ms
Loss rate: 6.44%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 14:12:18

End at: 2018-05-24 14:12:48

Local clock offset: -2.186 ms

Remote clock offset: 2.899 ms

# Below is generated by plot.py at 2018-05-24 17:19:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.80 Mbit/s

95th percentile per-packet one-way delay: 111.916 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 111.890 ms

Loss rate: 2.27%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 114.844 ms

Loss rate: 3.09%

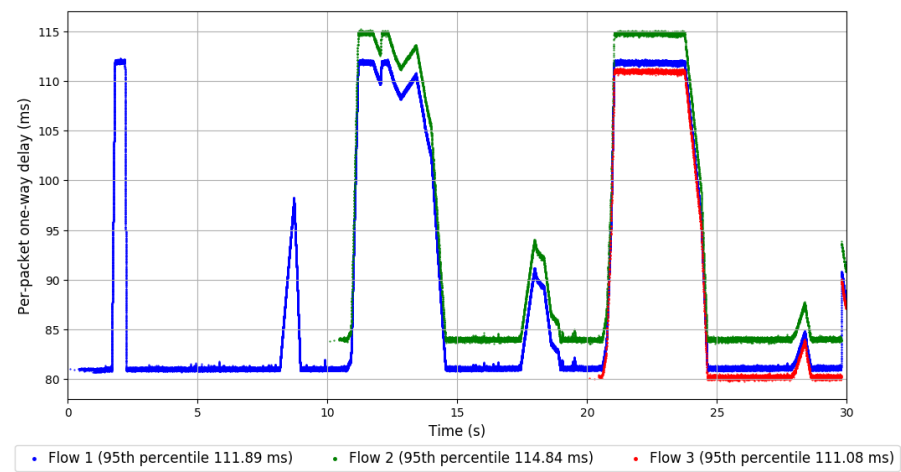
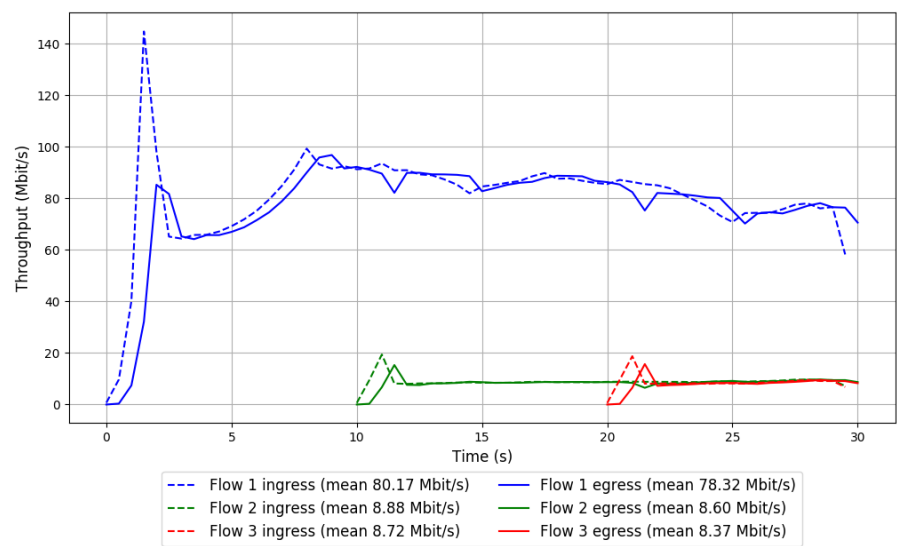
-- Flow 3:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 111.077 ms

Loss rate: 3.92%

Run 2: Report of PCC-Allegro — Data Link

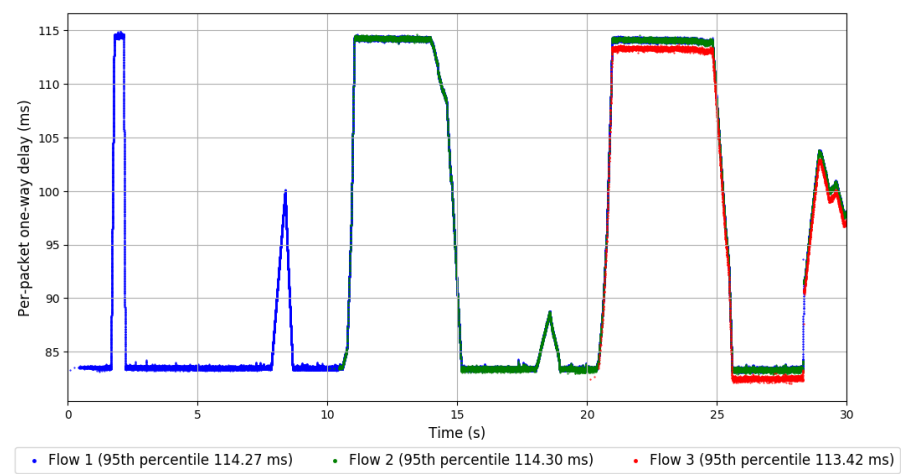
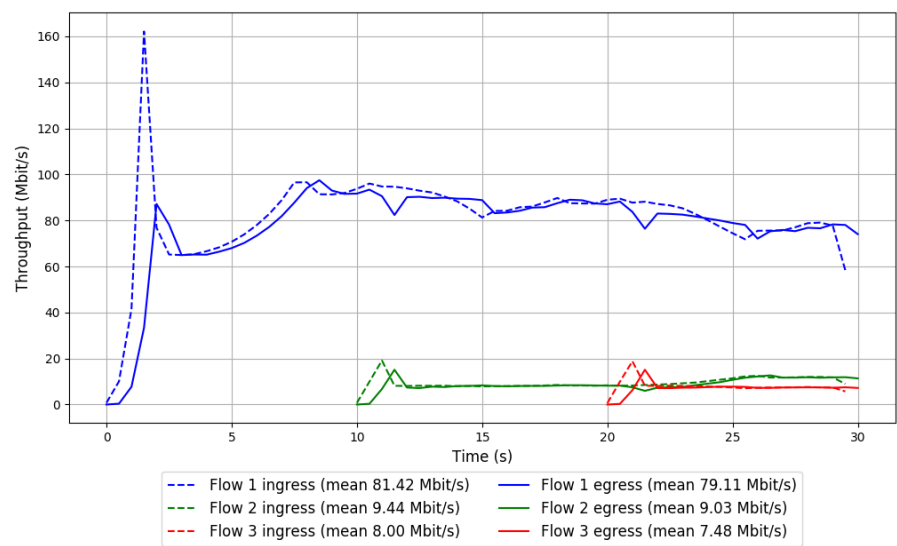


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 14:31:58  
End at: 2018-05-24 14:32:28  
Local clock offset: -1.95 ms  
Remote clock offset: 16.965 ms

# Below is generated by plot.py at 2018-05-24 17:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.58 Mbit/s  
95th percentile per-packet one-way delay: 114.272 ms  
Loss rate: 2.99%  
-- Flow 1:  
Average throughput: 79.11 Mbit/s  
95th percentile per-packet one-way delay: 114.273 ms  
Loss rate: 2.79%  
-- Flow 2:  
Average throughput: 9.03 Mbit/s  
95th percentile per-packet one-way delay: 114.295 ms  
Loss rate: 4.26%  
-- Flow 3:  
Average throughput: 7.48 Mbit/s  
95th percentile per-packet one-way delay: 113.423 ms  
Loss rate: 6.32%

Run 3: Report of PCC-Allegro — Data Link

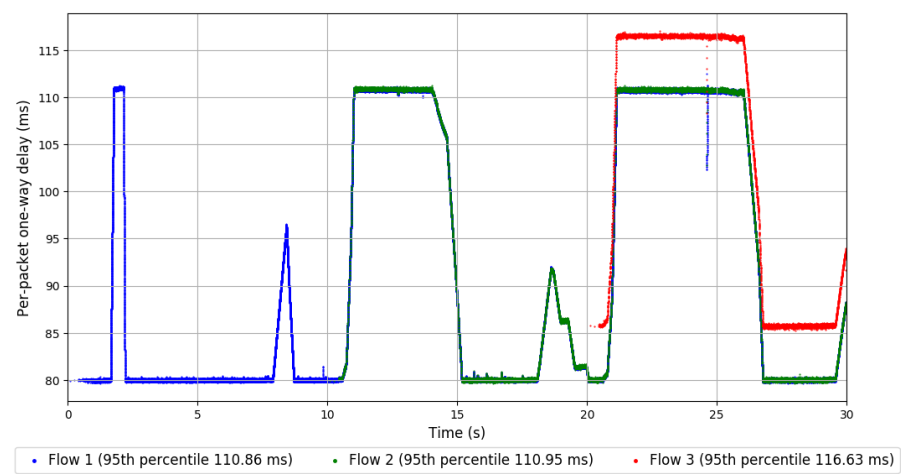
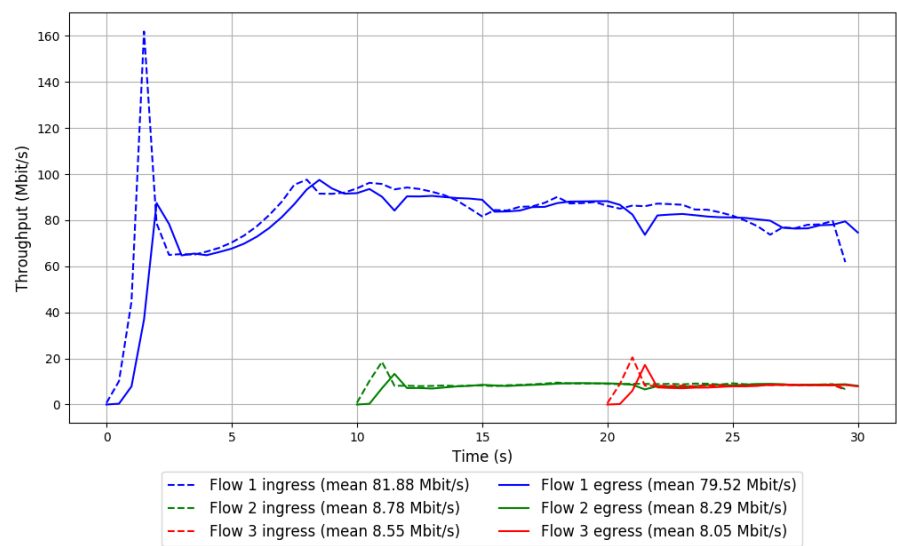


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 14:51:39  
End at: 2018-05-24 14:52:09  
Local clock offset: -1.809 ms  
Remote clock offset: 20.217 ms

# Below is generated by plot.py at 2018-05-24 17:19:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.69 Mbit/s  
95th percentile per-packet one-way delay: 110.892 ms  
Loss rate: 3.12%  
-- Flow 1:  
Average throughput: 79.52 Mbit/s  
95th percentile per-packet one-way delay: 110.858 ms  
Loss rate: 2.85%  
-- Flow 2:  
Average throughput: 8.29 Mbit/s  
95th percentile per-packet one-way delay: 110.948 ms  
Loss rate: 5.52%  
-- Flow 3:  
Average throughput: 8.05 Mbit/s  
95th percentile per-packet one-way delay: 116.633 ms  
Loss rate: 5.85%

Run 4: Report of PCC-Allegro — Data Link

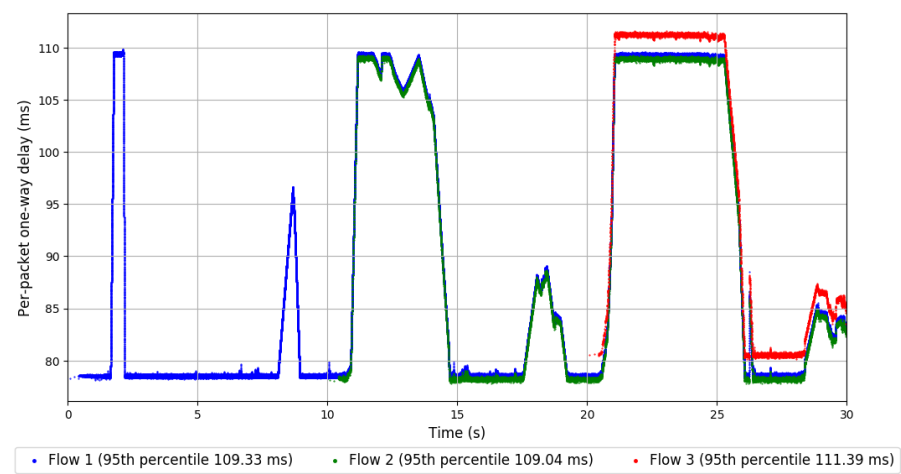
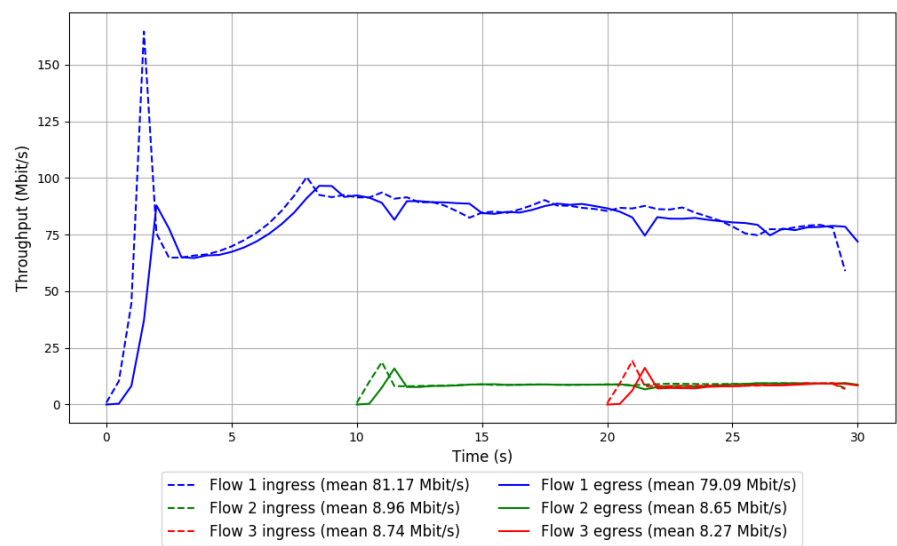


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 15:11:19  
End at: 2018-05-24 15:11:49  
Local clock offset: -1.956 ms  
Remote clock offset: 24.208 ms

# Below is generated by plot.py at 2018-05-24 17:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.57 Mbit/s  
95th percentile per-packet one-way delay: 109.353 ms  
Loss rate: 2.69%  
-- Flow 1:  
Average throughput: 79.09 Mbit/s  
95th percentile per-packet one-way delay: 109.334 ms  
Loss rate: 2.54%  
-- Flow 2:  
Average throughput: 8.65 Mbit/s  
95th percentile per-packet one-way delay: 109.040 ms  
Loss rate: 3.43%  
-- Flow 3:  
Average throughput: 8.27 Mbit/s  
95th percentile per-packet one-way delay: 111.388 ms  
Loss rate: 5.40%

Run 5: Report of PCC-Allegro — Data Link

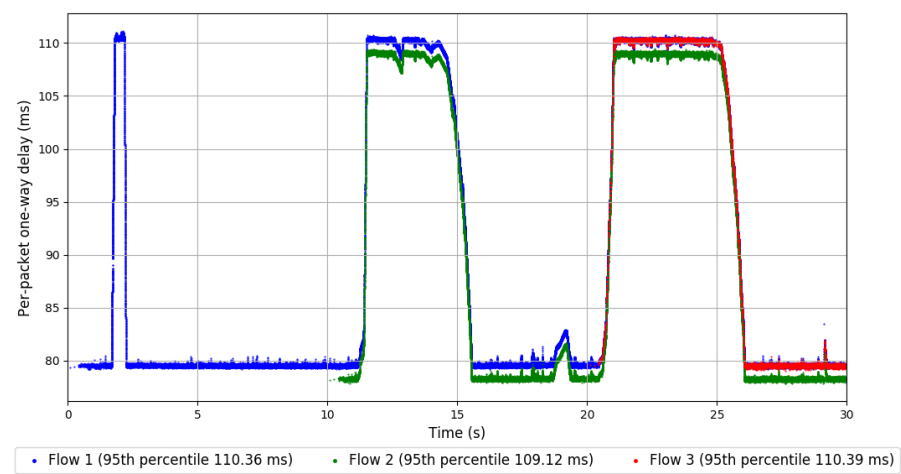
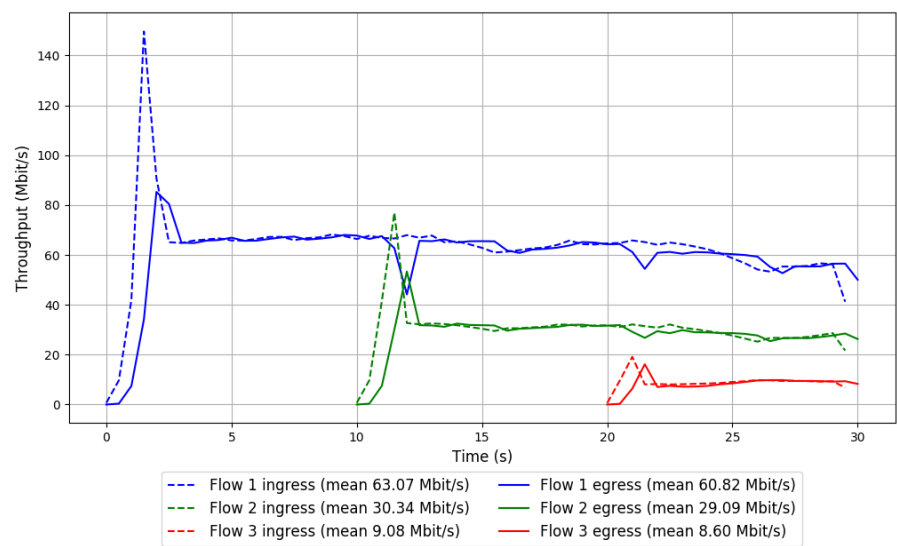


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 15:31:00  
End at: 2018-05-24 15:31:30  
Local clock offset: -1.358 ms  
Remote clock offset: 28.596 ms

# Below is generated by plot.py at 2018-05-24 17:19:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.00 Mbit/s  
95th percentile per-packet one-way delay: 110.333 ms  
Loss rate: 3.76%  
-- Flow 1:  
Average throughput: 60.82 Mbit/s  
95th percentile per-packet one-way delay: 110.359 ms  
Loss rate: 3.57%  
-- Flow 2:  
Average throughput: 29.09 Mbit/s  
95th percentile per-packet one-way delay: 109.120 ms  
Loss rate: 4.11%  
-- Flow 3:  
Average throughput: 8.60 Mbit/s  
95th percentile per-packet one-way delay: 110.394 ms  
Loss rate: 5.32%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 15:50:41

End at: 2018-05-24 15:51:11

Local clock offset: -1.676 ms

Remote clock offset: 2.583 ms

# Below is generated by plot.py at 2018-05-24 17:19:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 109.792 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 79.84 Mbit/s

95th percentile per-packet one-way delay: 109.755 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 111.196 ms

Loss rate: 4.16%

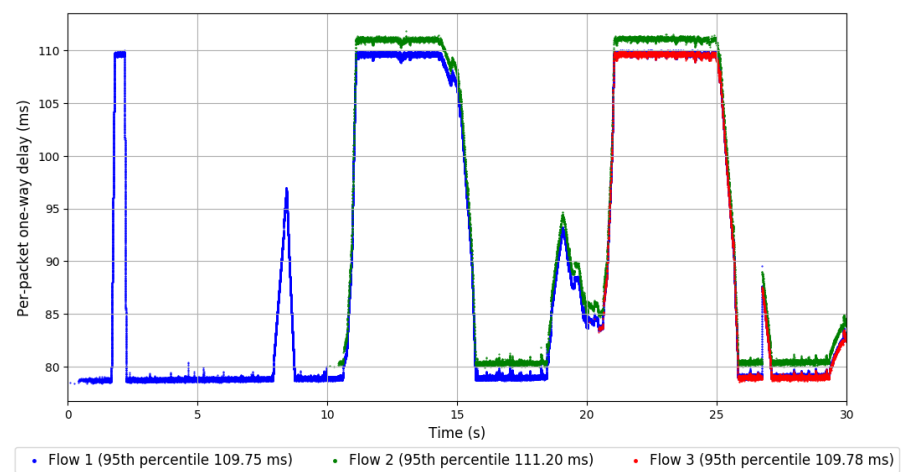
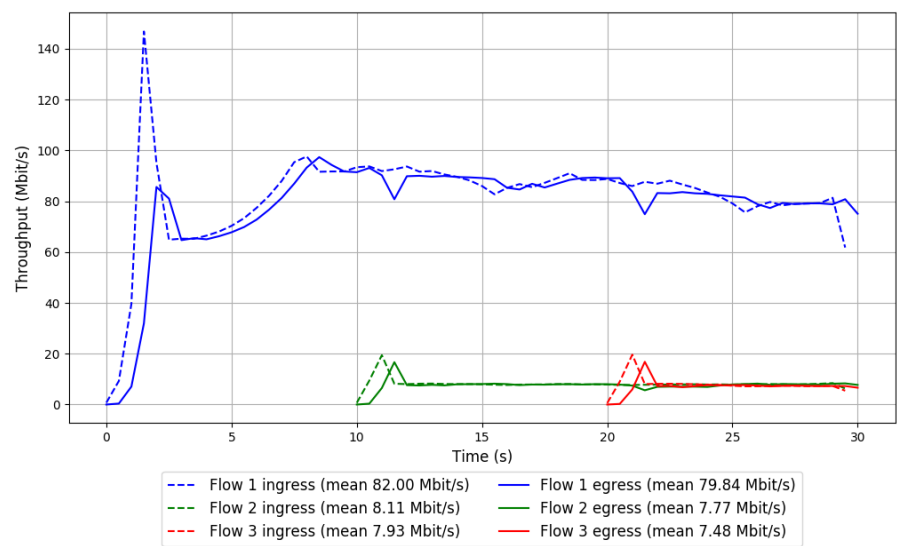
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 109.783 ms

Loss rate: 5.77%

Run 7: Report of PCC-Allegro — Data Link

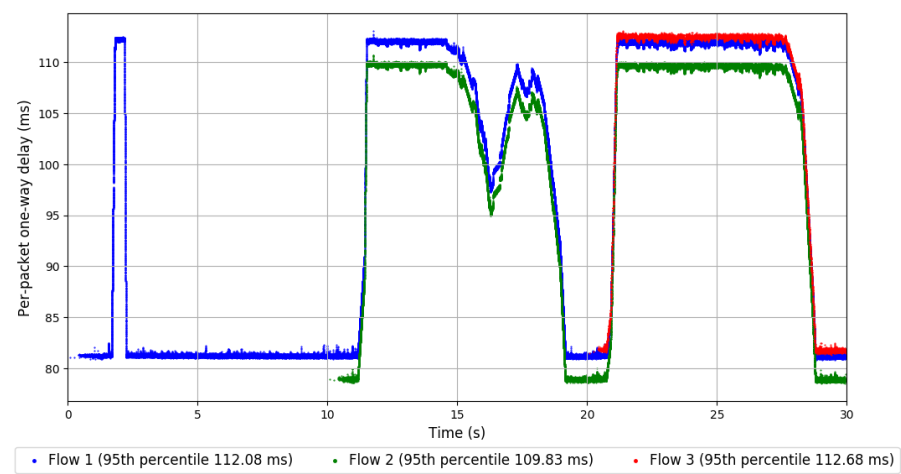
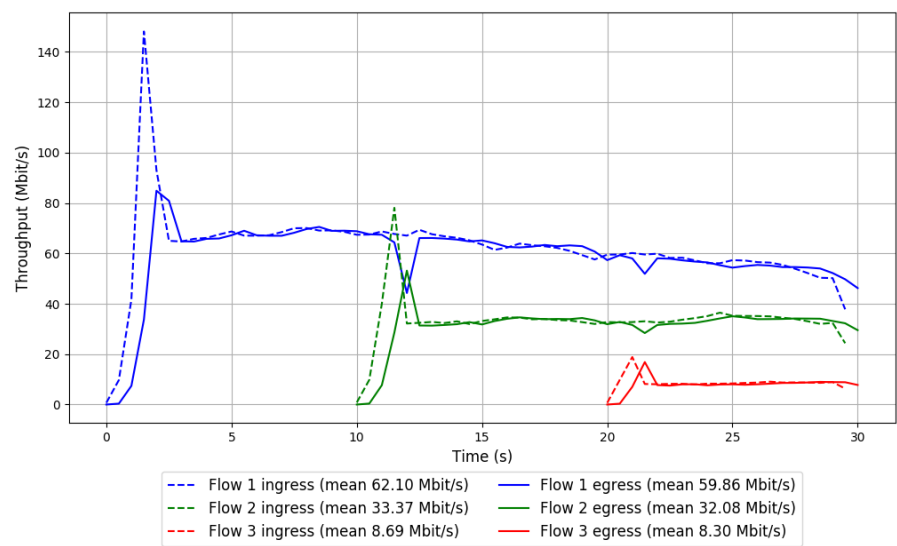


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 16:10:20  
End at: 2018-05-24 16:10:50  
Local clock offset: -2.231 ms  
Remote clock offset: -0.856 ms

# Below is generated by plot.py at 2018-05-24 17:19:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.94 Mbit/s  
95th percentile per-packet one-way delay: 112.101 ms  
Loss rate: 3.69%  
-- Flow 1:  
Average throughput: 59.86 Mbit/s  
95th percentile per-packet one-way delay: 112.082 ms  
Loss rate: 3.60%  
-- Flow 2:  
Average throughput: 32.08 Mbit/s  
95th percentile per-packet one-way delay: 109.828 ms  
Loss rate: 3.85%  
-- Flow 3:  
Average throughput: 8.30 Mbit/s  
95th percentile per-packet one-way delay: 112.676 ms  
Loss rate: 4.44%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 16:30:02

End at: 2018-05-24 16:30:32

Local clock offset: -2.212 ms

Remote clock offset: 4.647 ms

# Below is generated by plot.py at 2018-05-24 17:20:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 113.298 ms

Loss rate: 3.92%

-- Flow 1:

Average throughput: 79.97 Mbit/s

95th percentile per-packet one-way delay: 113.175 ms

Loss rate: 3.56%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 114.855 ms

Loss rate: 7.15%

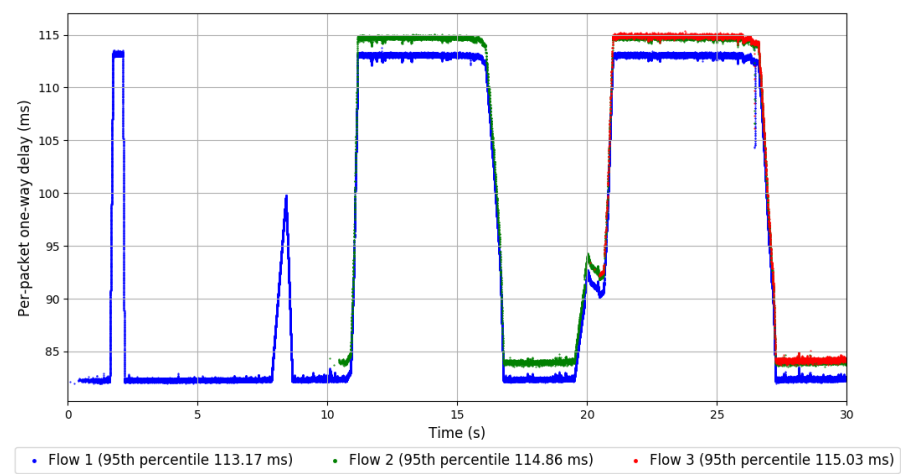
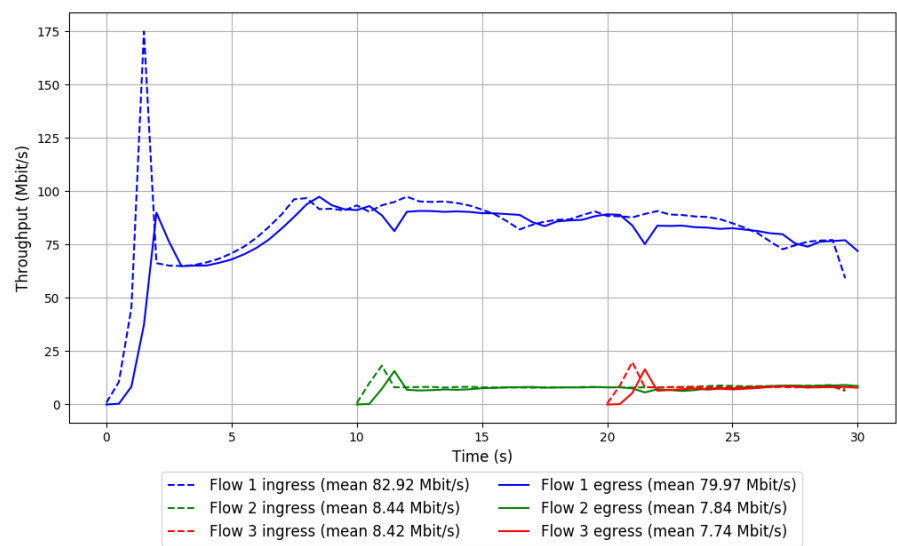
-- Flow 3:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 115.032 ms

Loss rate: 8.24%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 16:49:40

End at: 2018-05-24 16:50:10

Local clock offset: -1.413 ms

Remote clock offset: 7.691 ms

# Below is generated by plot.py at 2018-05-24 17:20:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 113.885 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 113.836 ms

Loss rate: 2.63%

-- Flow 2:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 114.414 ms

Loss rate: 3.48%

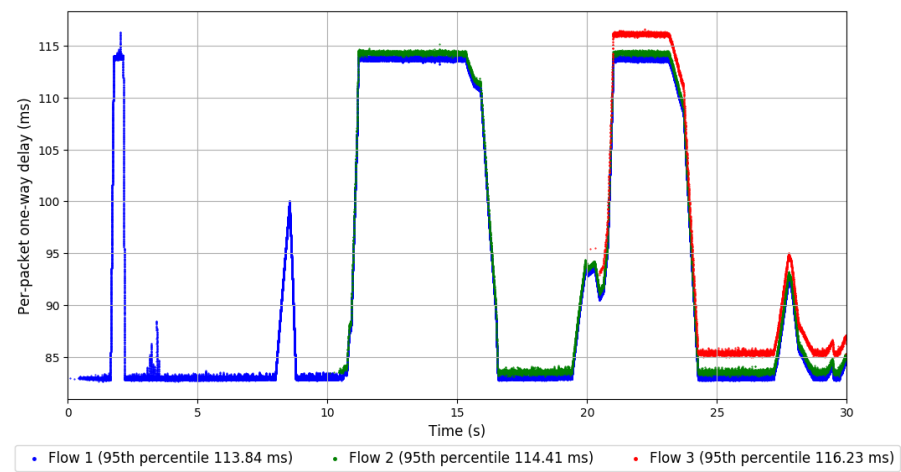
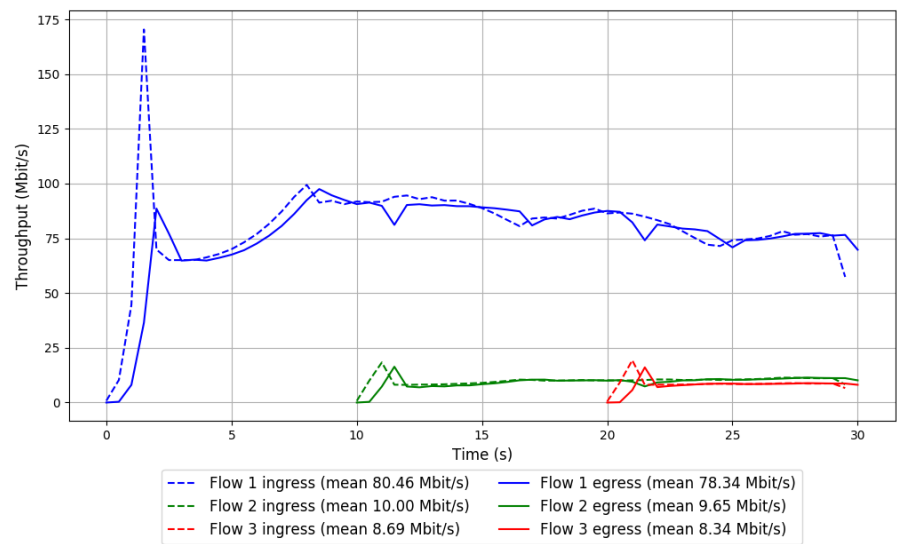
-- Flow 3:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 116.233 ms

Loss rate: 4.09%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

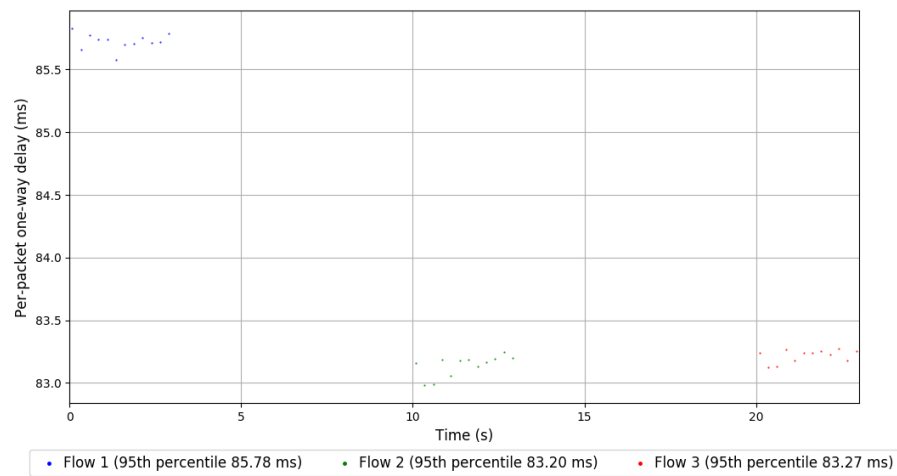
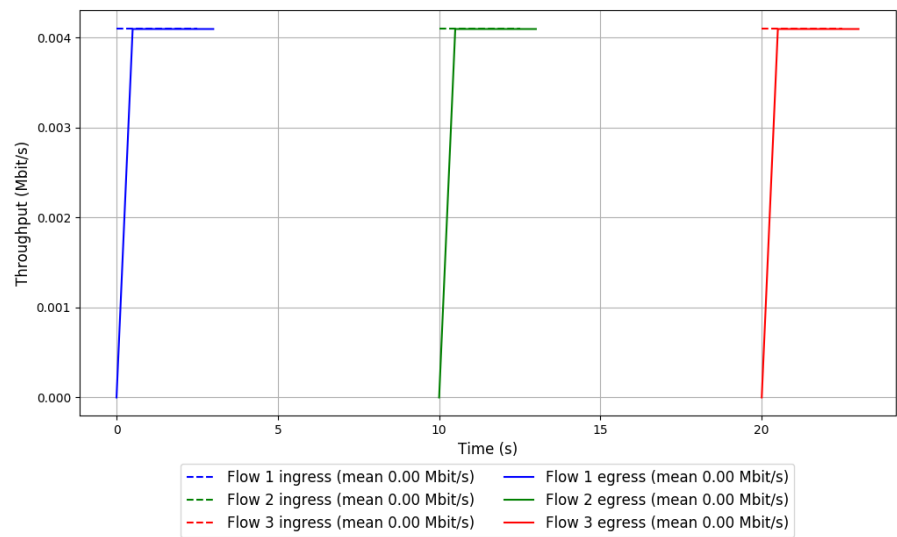
Start at: 2018-05-24 14:06:06

End at: 2018-05-24 14:06:36

Local clock offset: -1.509 ms

Remote clock offset: 8.629 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

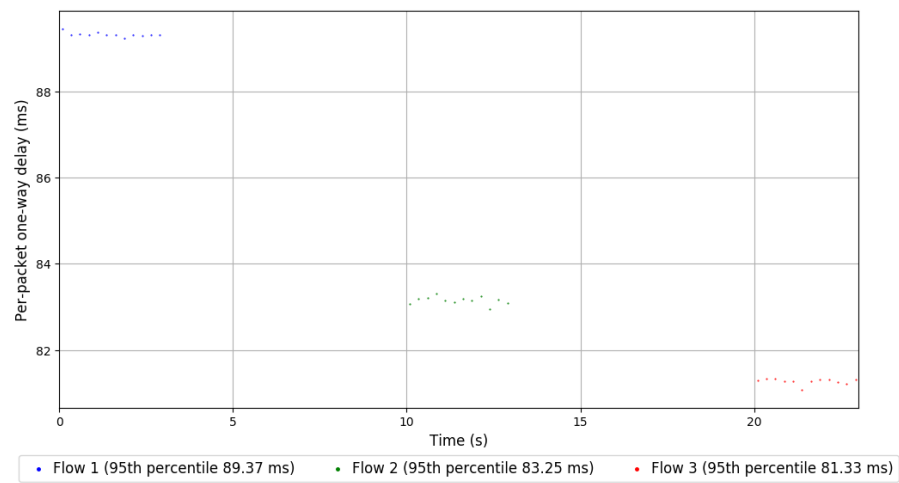
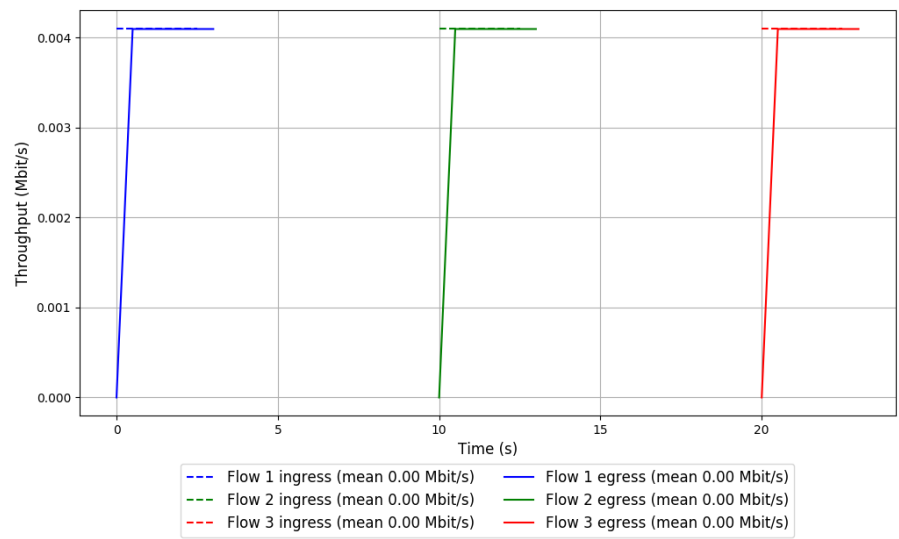
Start at: 2018-05-24 14:25:46

End at: 2018-05-24 14:26:16

Local clock offset: -1.269 ms

Remote clock offset: 10.55 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

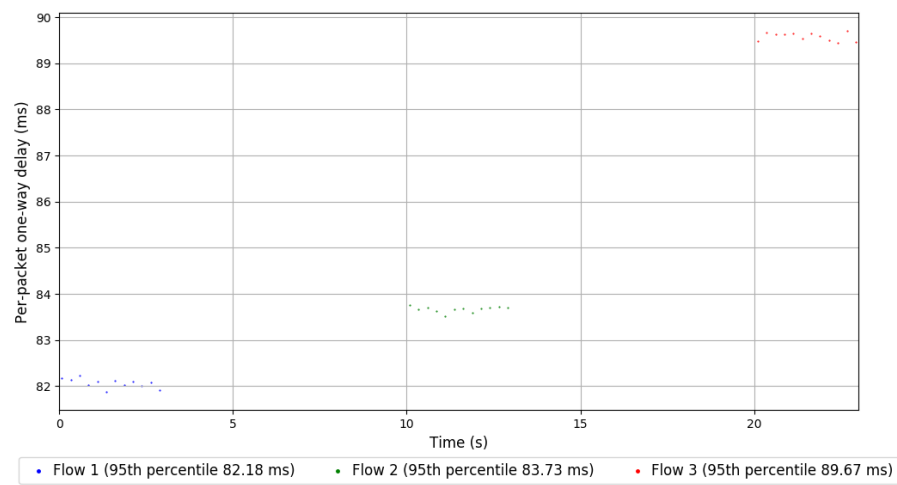
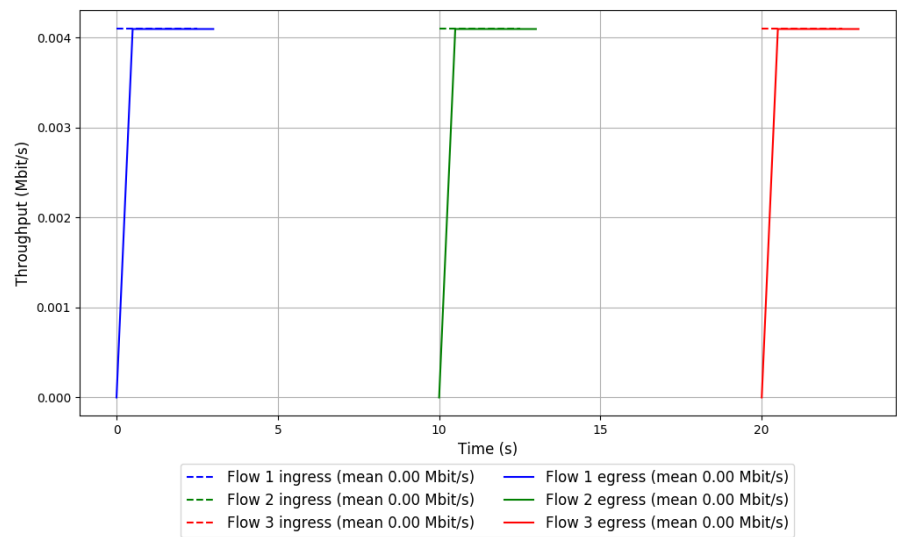
Start at: 2018-05-24 14:45:26

End at: 2018-05-24 14:45:56

Local clock offset: -1.837 ms

Remote clock offset: 22.486 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

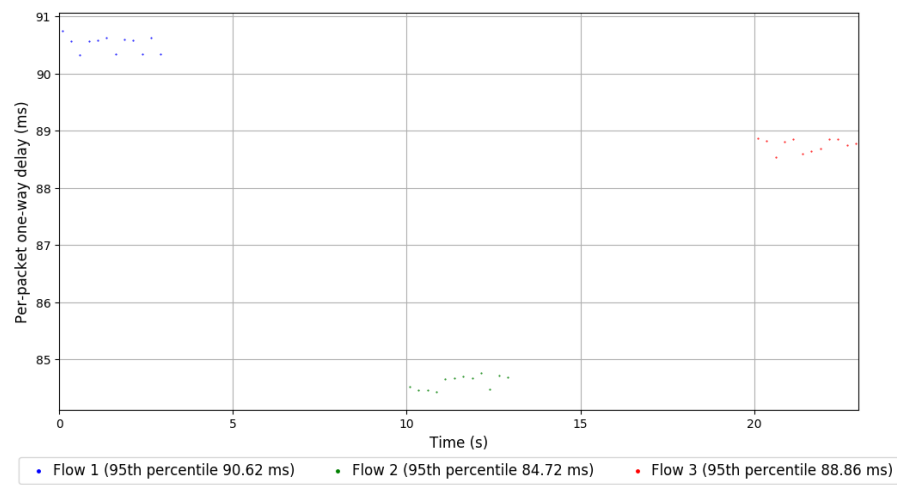
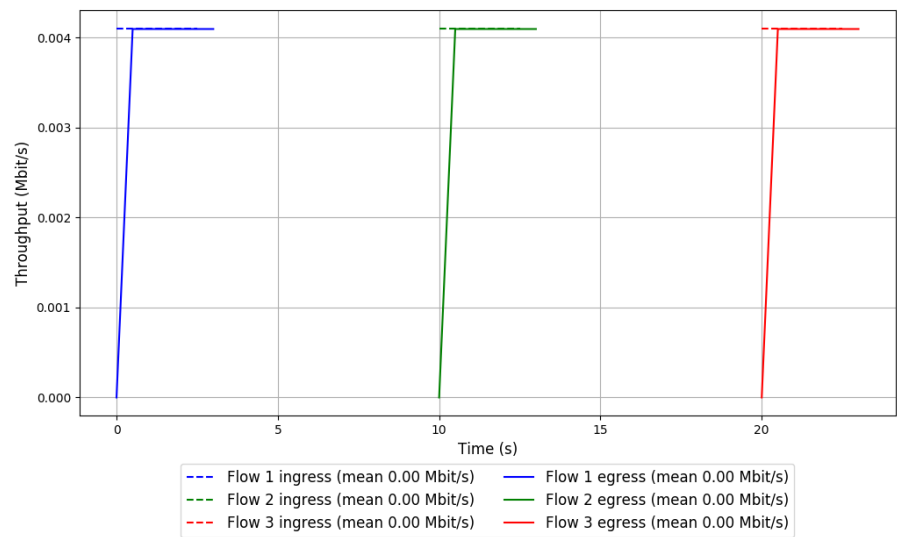
Start at: 2018-05-24 15:05:07

End at: 2018-05-24 15:05:37

Local clock offset: -1.184 ms

Remote clock offset: 28.61 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

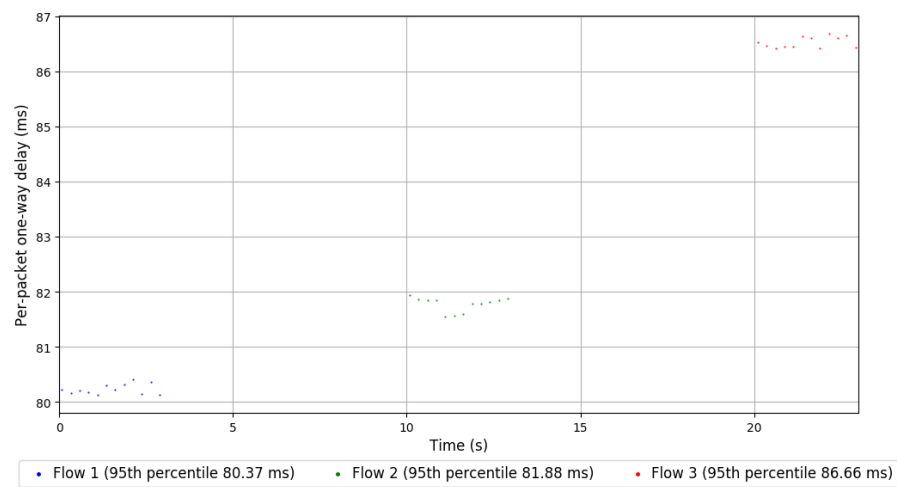
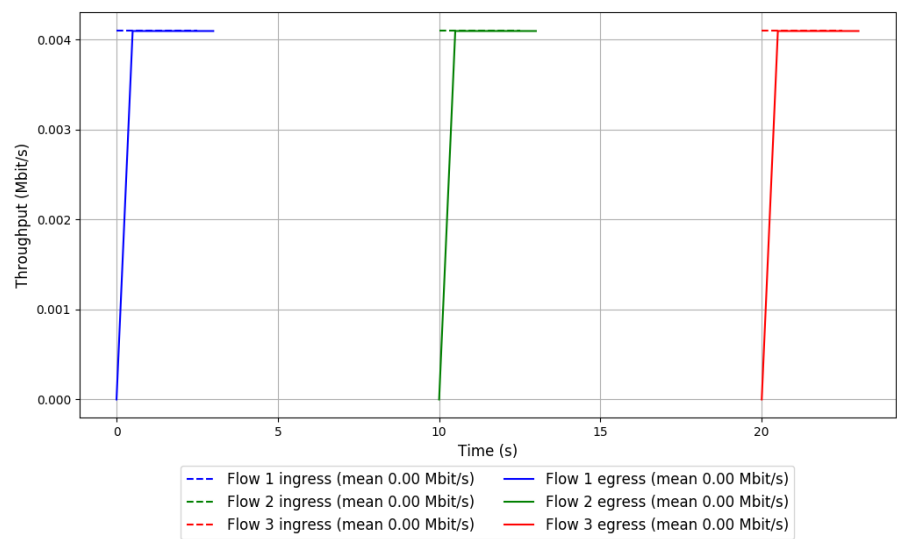
Start at: 2018-05-24 15:24:48

End at: 2018-05-24 15:25:18

Local clock offset: -1.935 ms

Remote clock offset: 27.507 ms

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

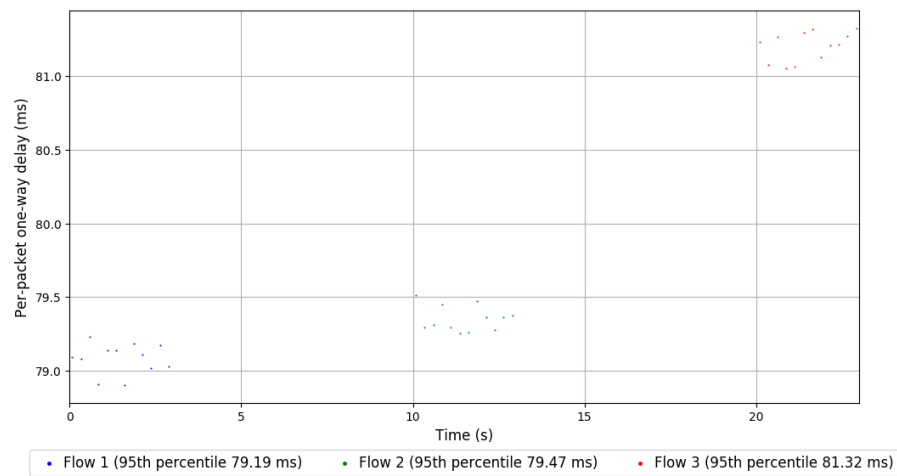
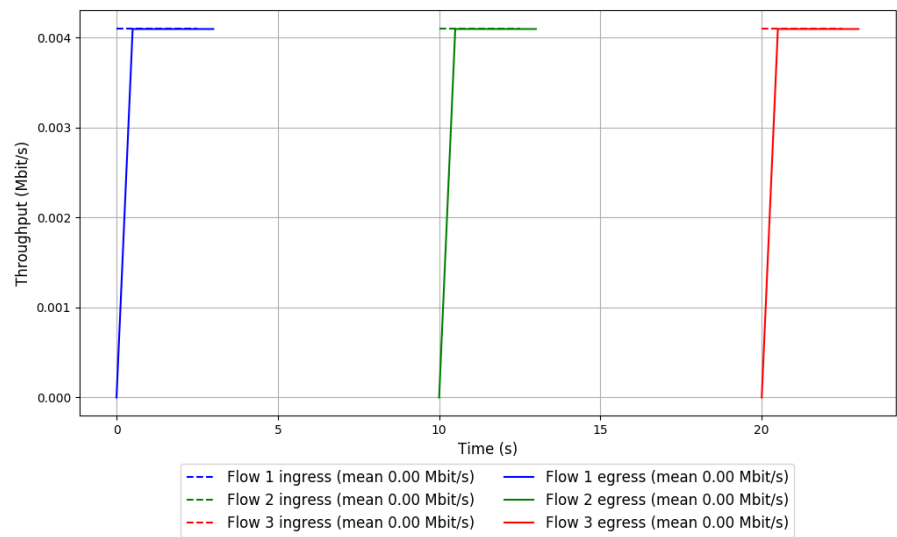
Start at: 2018-05-24 15:44:29

End at: 2018-05-24 15:44:59

Local clock offset: -2.373 ms

Remote clock offset: 6.985 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

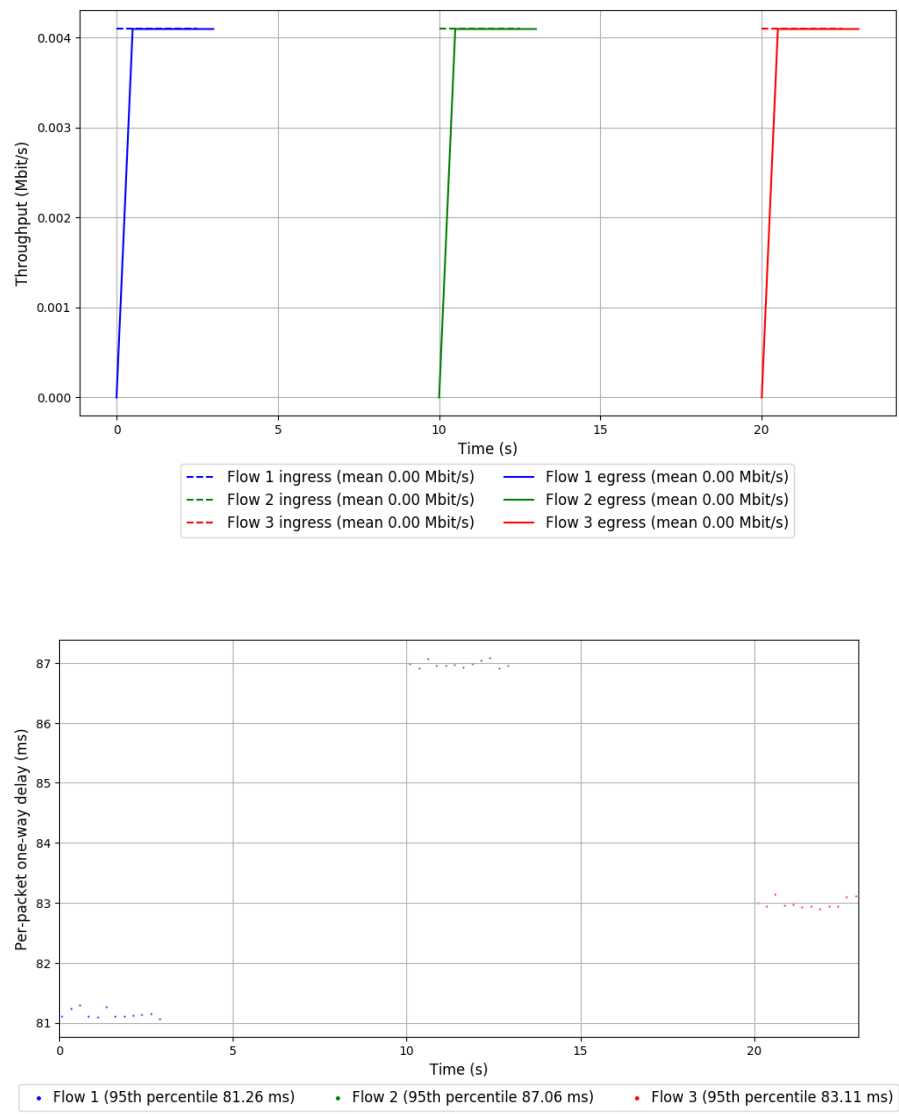
Start at: 2018-05-24 16:04:08

End at: 2018-05-24 16:04:38

Local clock offset: -1.527 ms

Remote clock offset: 0.079 ms

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

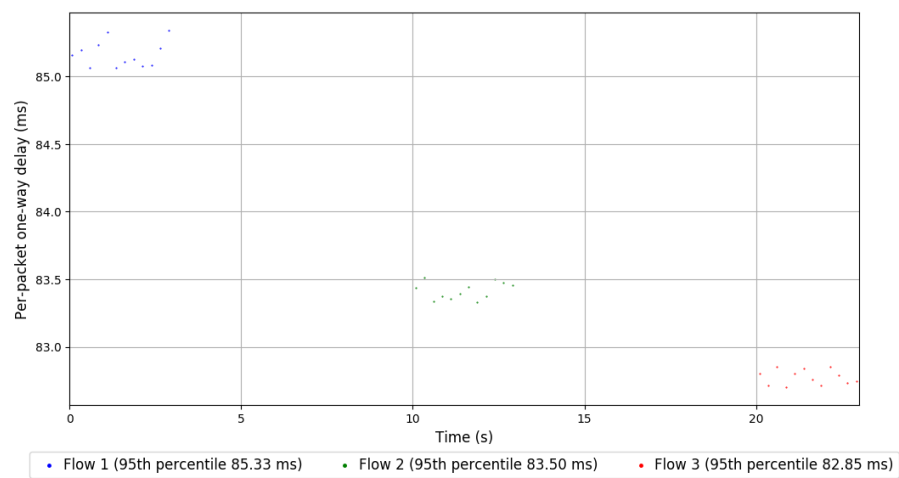
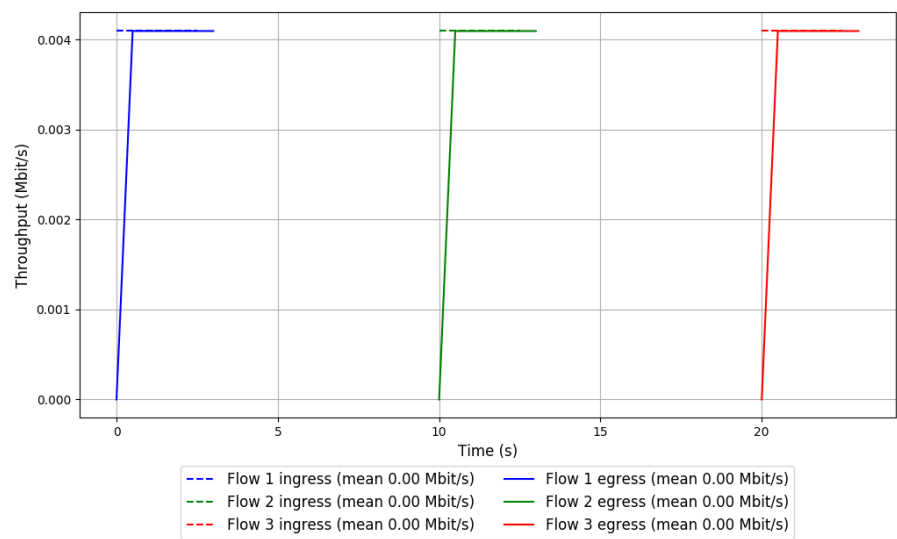
Start at: 2018-05-24 16:23:50

End at: 2018-05-24 16:24:20

Local clock offset: -2.191 ms

Remote clock offset: 5.539 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

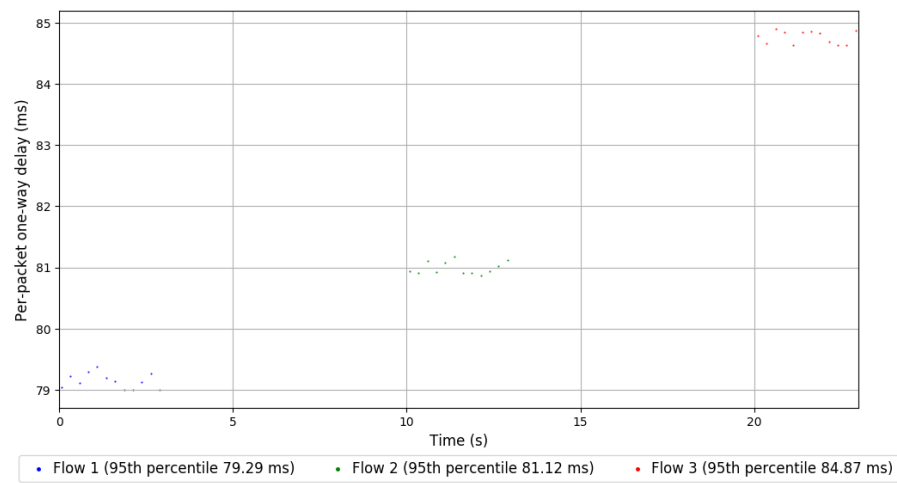
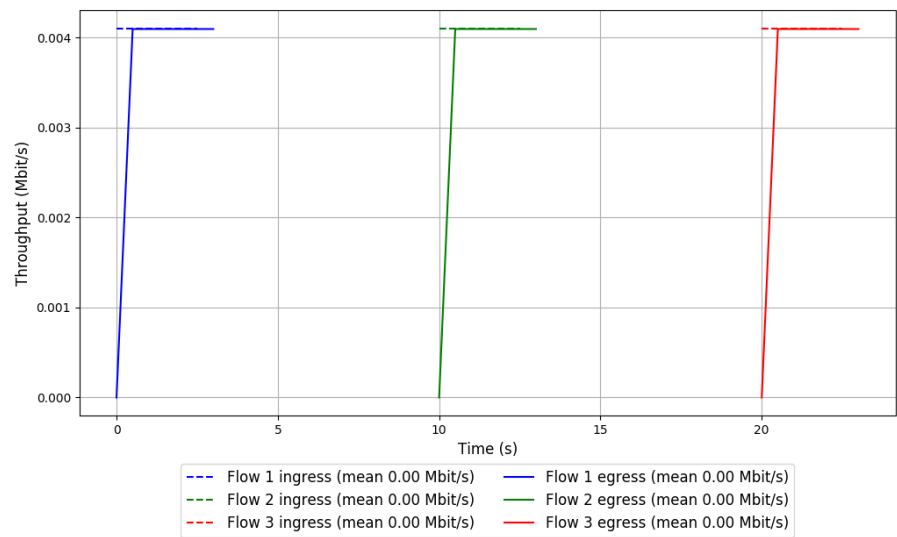
Start at: 2018-05-24 16:43:28

End at: 2018-05-24 16:43:58

Local clock offset: -2.947 ms

Remote clock offset: 1.22 ms

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

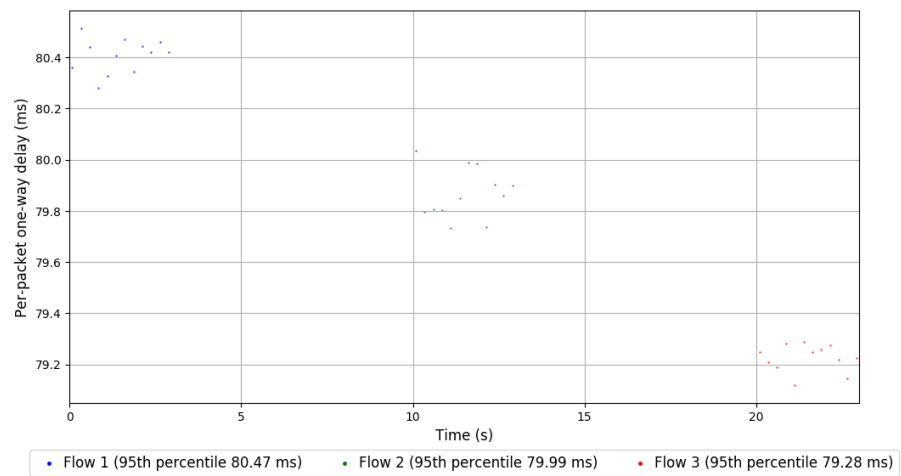
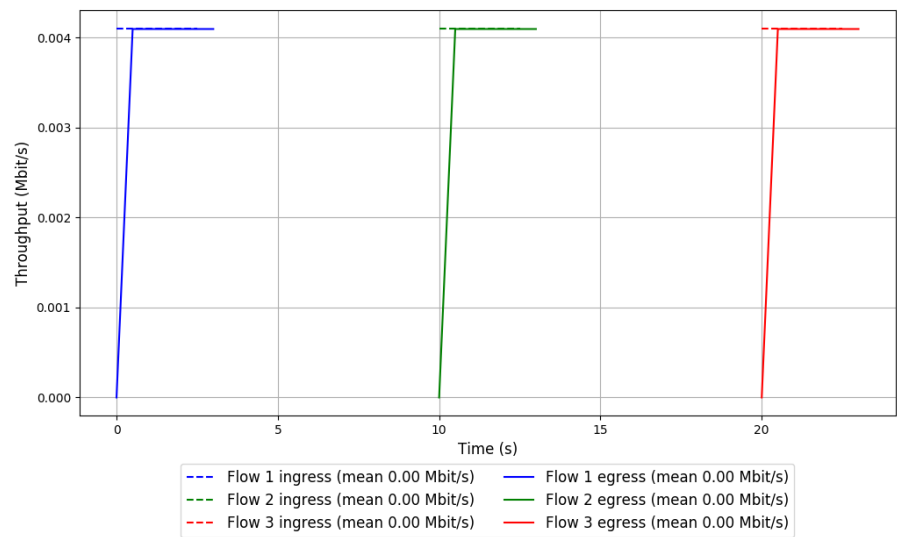
Start at: 2018-05-24 17:03:07

End at: 2018-05-24 17:03:37

Local clock offset: -1.357 ms

Remote clock offset: 2.793 ms

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 13:51:23

End at: 2018-05-24 13:51:53

Local clock offset: -2.634 ms

Remote clock offset: 8.509 ms

# Below is generated by plot.py at 2018-05-24 17:20:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 111.172 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 53.54 Mbit/s

95th percentile per-packet one-way delay: 109.773 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 113.526 ms

Loss rate: 0.28%

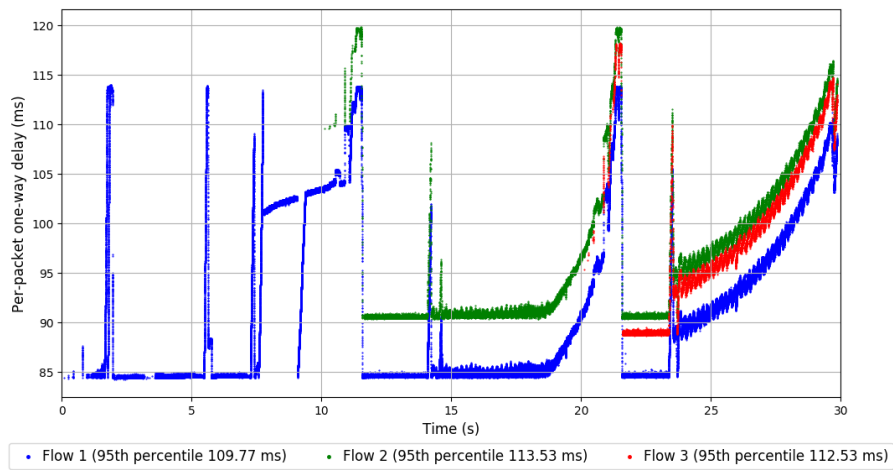
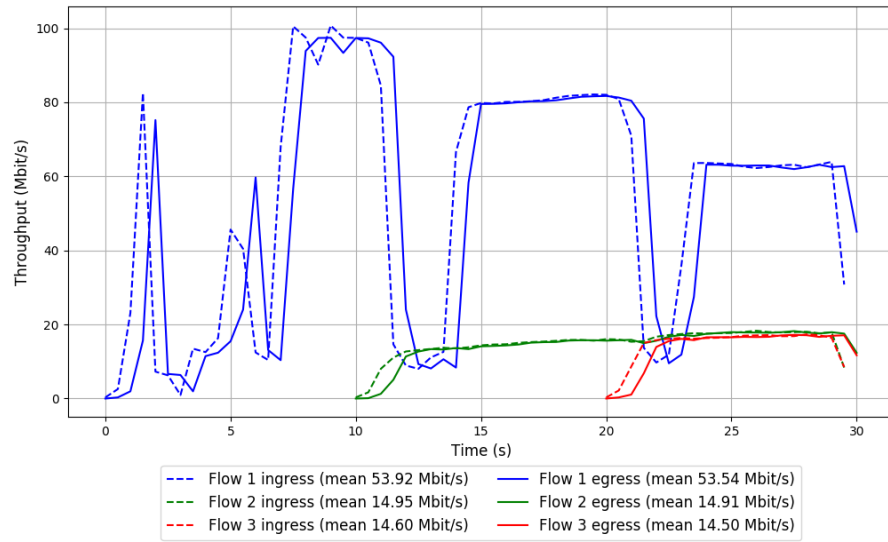
-- Flow 3:

Average throughput: 14.50 Mbit/s

95th percentile per-packet one-way delay: 112.529 ms

Loss rate: 0.48%

## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 14:11:04

End at: 2018-05-24 14:11:34

Local clock offset: -2.275 ms

Remote clock offset: 7.649 ms

# Below is generated by plot.py at 2018-05-24 17:20:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 105.480 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 49.92 Mbit/s

95th percentile per-packet one-way delay: 107.231 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 101.971 ms

Loss rate: 0.54%

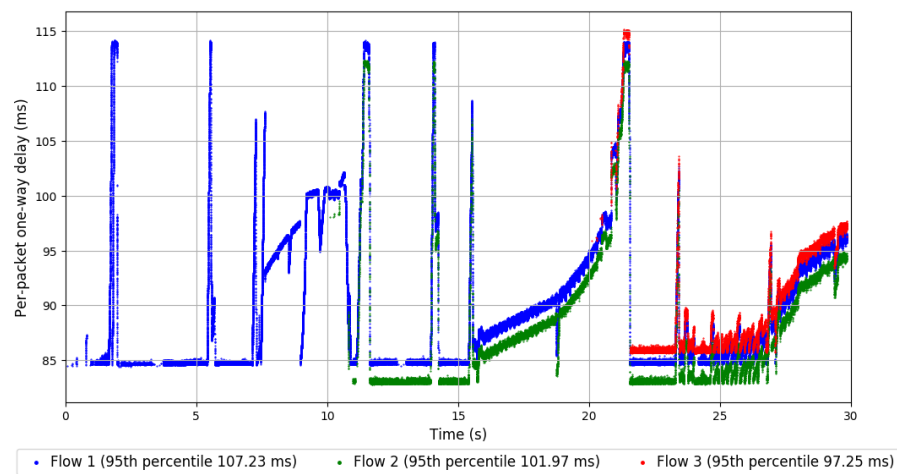
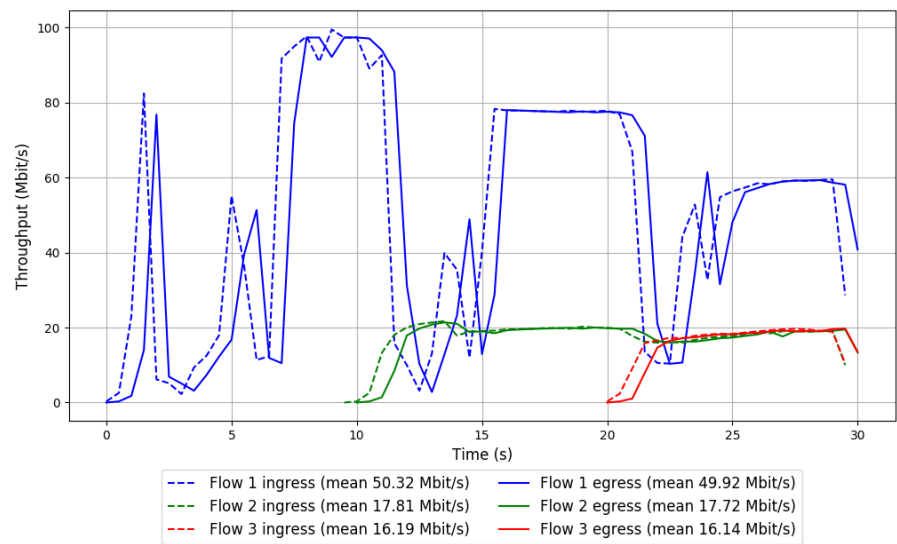
-- Flow 3:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 97.254 ms

Loss rate: 0.33%

Run 2: Report of QUIC Cubic — Data Link

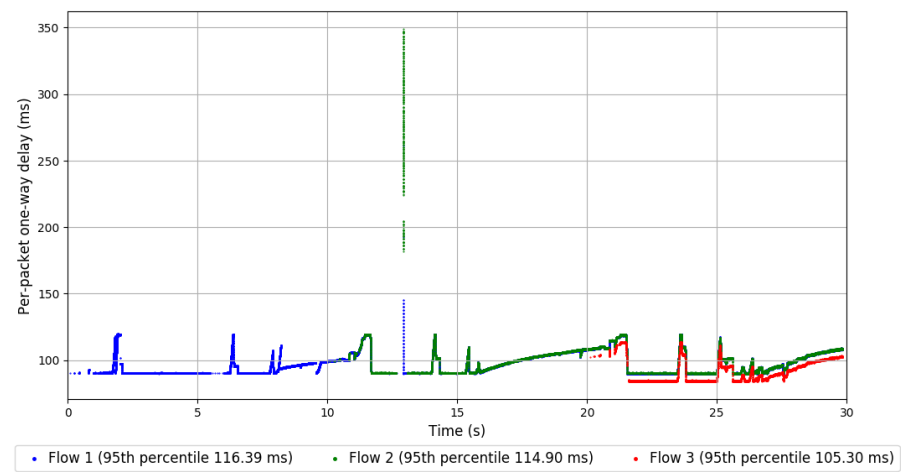
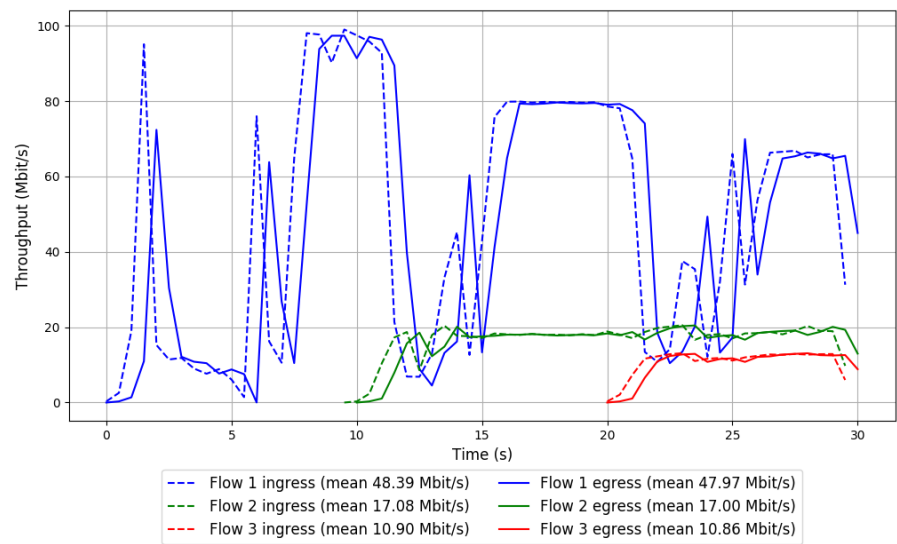


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 14:30:44  
End at: 2018-05-24 14:31:14  
Local clock offset: -1.98 ms  
Remote clock offset: 16.036 ms

# Below is generated by plot.py at 2018-05-24 17:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.81 Mbit/s  
95th percentile per-packet one-way delay: 116.134 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 47.97 Mbit/s  
95th percentile per-packet one-way delay: 116.395 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 17.00 Mbit/s  
95th percentile per-packet one-way delay: 114.898 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 10.86 Mbit/s  
95th percentile per-packet one-way delay: 105.296 ms  
Loss rate: 0.39%

Run 3: Report of QUIC Cubic — Data Link

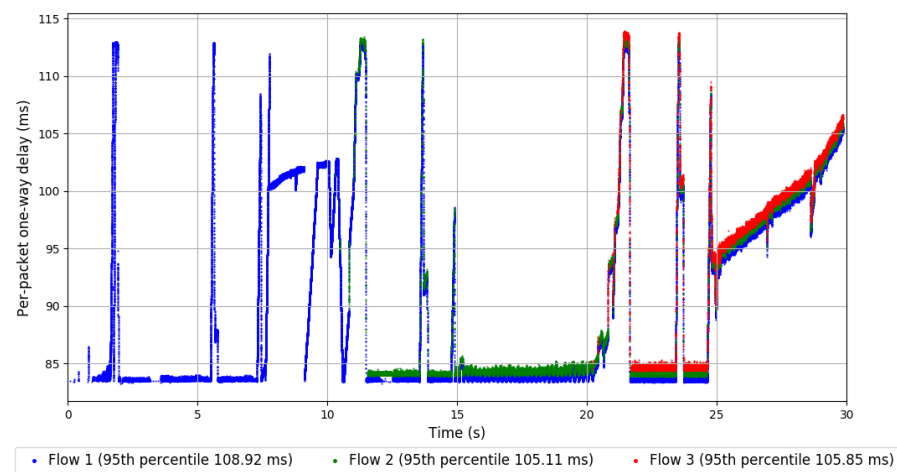
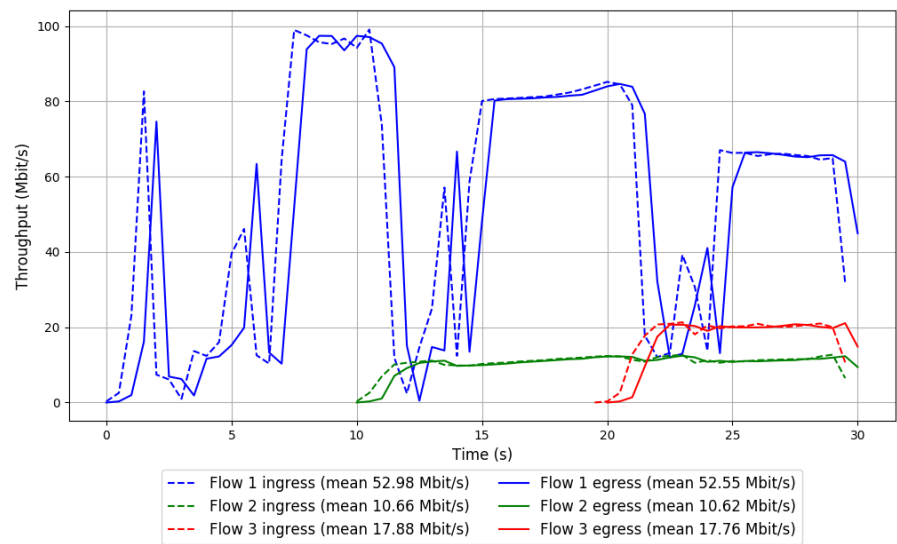


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 14:50:24  
End at: 2018-05-24 14:50:54  
Local clock offset: -2.586 ms  
Remote clock offset: 24.487 ms

# Below is generated by plot.py at 2018-05-24 17:20:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.42 Mbit/s  
95th percentile per-packet one-way delay: 107.542 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 52.55 Mbit/s  
95th percentile per-packet one-way delay: 108.917 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 10.62 Mbit/s  
95th percentile per-packet one-way delay: 105.115 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 17.76 Mbit/s  
95th percentile per-packet one-way delay: 105.852 ms  
Loss rate: 0.50%

Run 4: Report of QUIC Cubic — Data Link

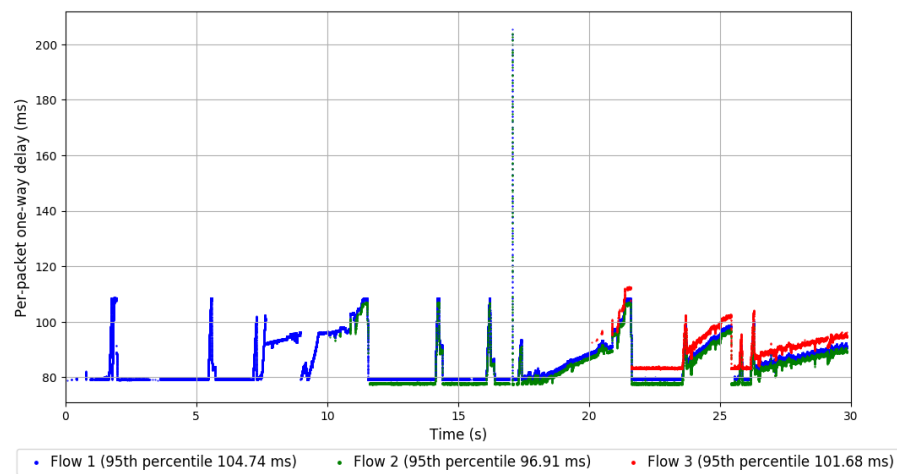
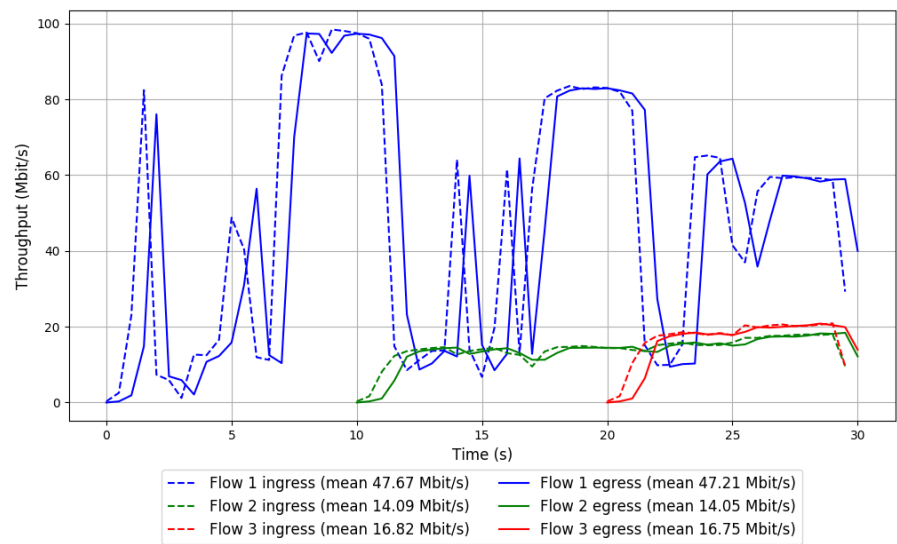


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 15:10:05  
End at: 2018-05-24 15:10:35  
Local clock offset: -1.2 ms  
Remote clock offset: 23.934 ms

# Below is generated by plot.py at 2018-05-24 17:20:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.99 Mbit/s  
95th percentile per-packet one-way delay: 104.144 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 47.21 Mbit/s  
95th percentile per-packet one-way delay: 104.738 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 14.05 Mbit/s  
95th percentile per-packet one-way delay: 96.911 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 16.75 Mbit/s  
95th percentile per-packet one-way delay: 101.677 ms  
Loss rate: 0.41%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 15:29:46

End at: 2018-05-24 15:30:16

Local clock offset: -1.317 ms

Remote clock offset: 28.37 ms

# Below is generated by plot.py at 2018-05-24 17:20:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.50 Mbit/s

95th percentile per-packet one-way delay: 105.261 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 105.253 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 12.39 Mbit/s

95th percentile per-packet one-way delay: 107.357 ms

Loss rate: 0.33%

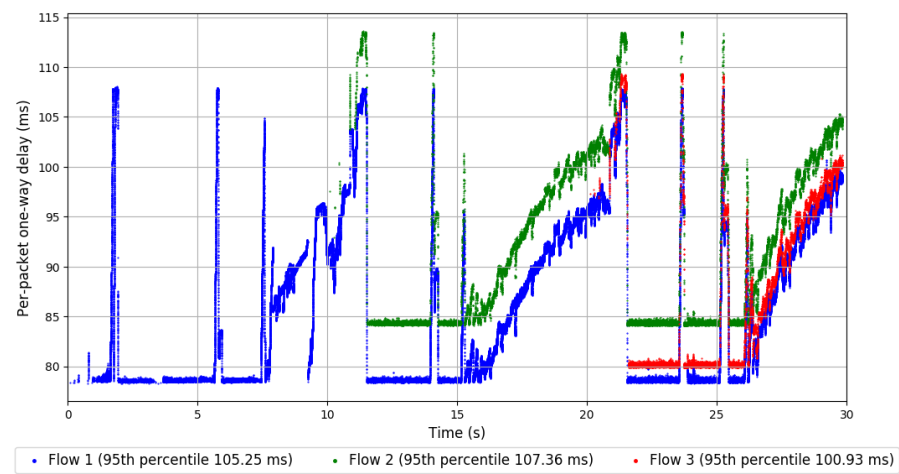
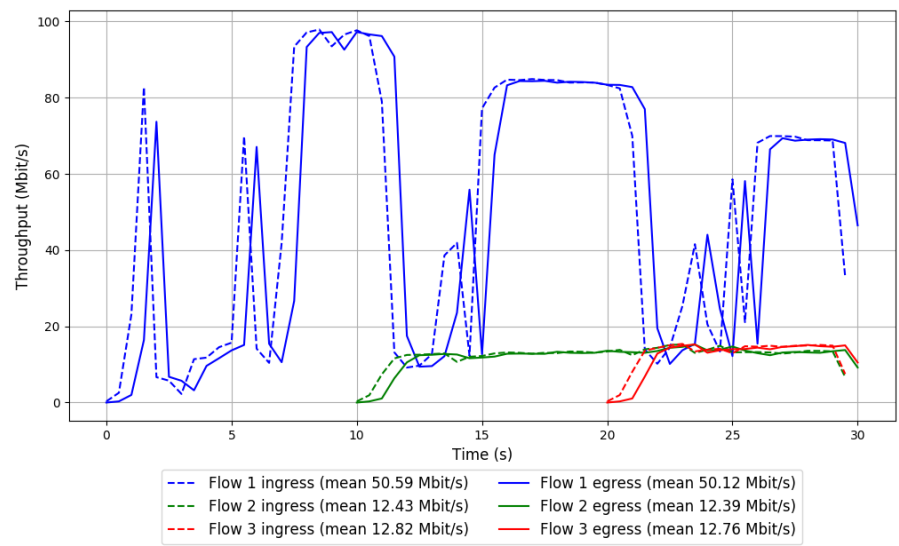
-- Flow 3:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 100.933 ms

Loss rate: 0.44%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 15:49:27

End at: 2018-05-24 15:49:57

Local clock offset: -2.433 ms

Remote clock offset: 3.619 ms

# Below is generated by plot.py at 2018-05-24 17:21:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 107.449 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 108.745 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 14.04 Mbit/s

95th percentile per-packet one-way delay: 105.309 ms

Loss rate: 0.40%

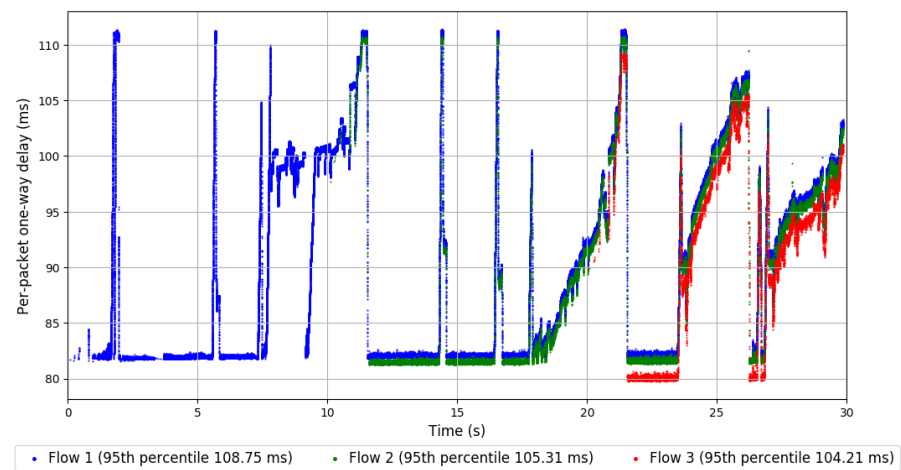
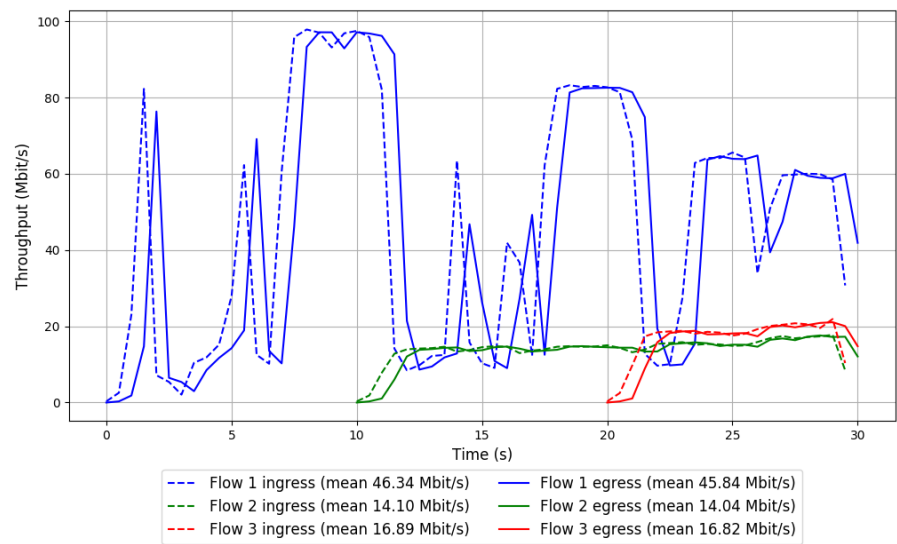
-- Flow 3:

Average throughput: 16.82 Mbit/s

95th percentile per-packet one-way delay: 104.207 ms

Loss rate: 0.33%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 16:09:06

End at: 2018-05-24 16:09:36

Local clock offset: -1.529 ms

Remote clock offset: 3.263 ms

# Below is generated by plot.py at 2018-05-24 17:21:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 115.108 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 115.755 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 107.918 ms

Loss rate: 0.22%

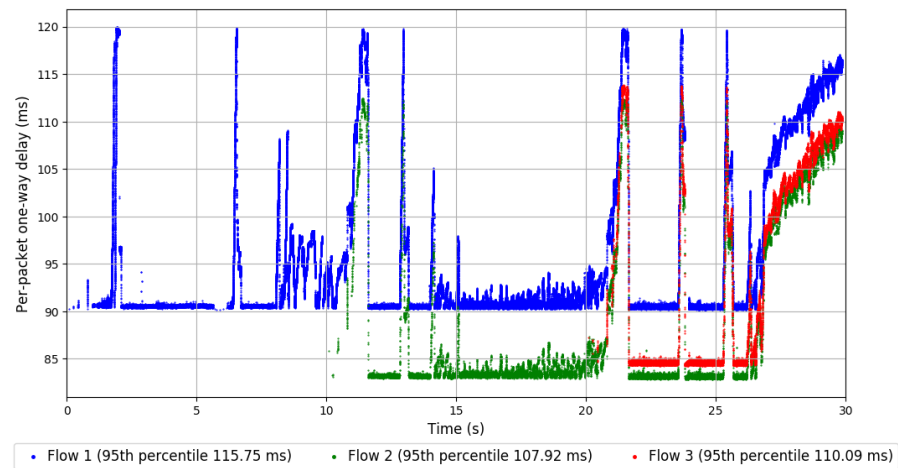
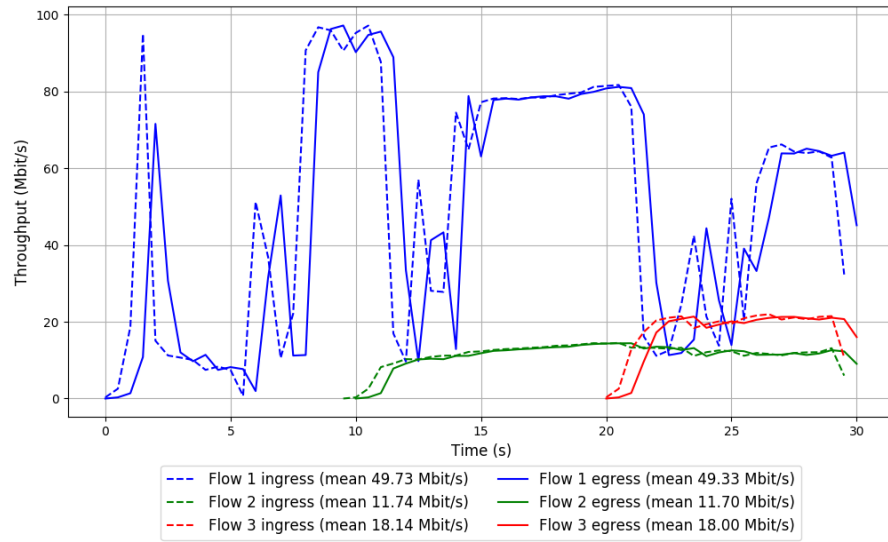
-- Flow 3:

Average throughput: 18.00 Mbit/s

95th percentile per-packet one-way delay: 110.091 ms

Loss rate: 0.52%

## Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 16:28:48

End at: 2018-05-24 16:29:18

Local clock offset: -2.193 ms

Remote clock offset: 6.25 ms

# Below is generated by plot.py at 2018-05-24 17:21:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.92 Mbit/s

95th percentile per-packet one-way delay: 112.126 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 111.503 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 118.014 ms

Loss rate: 1.17%

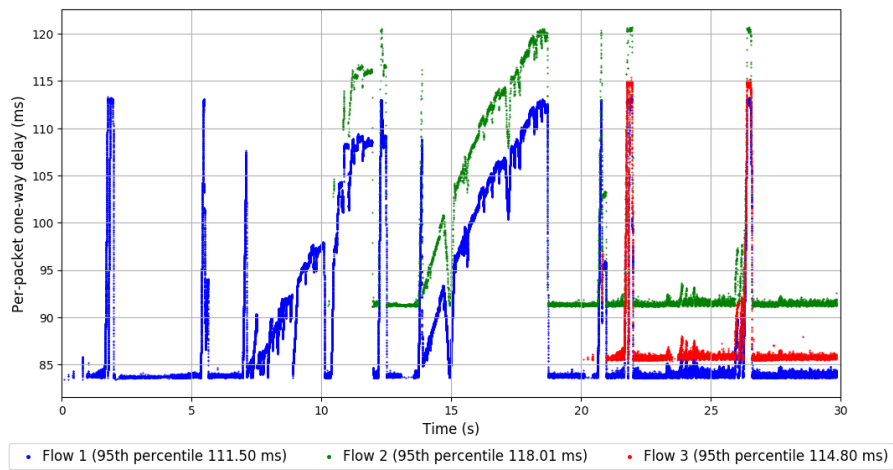
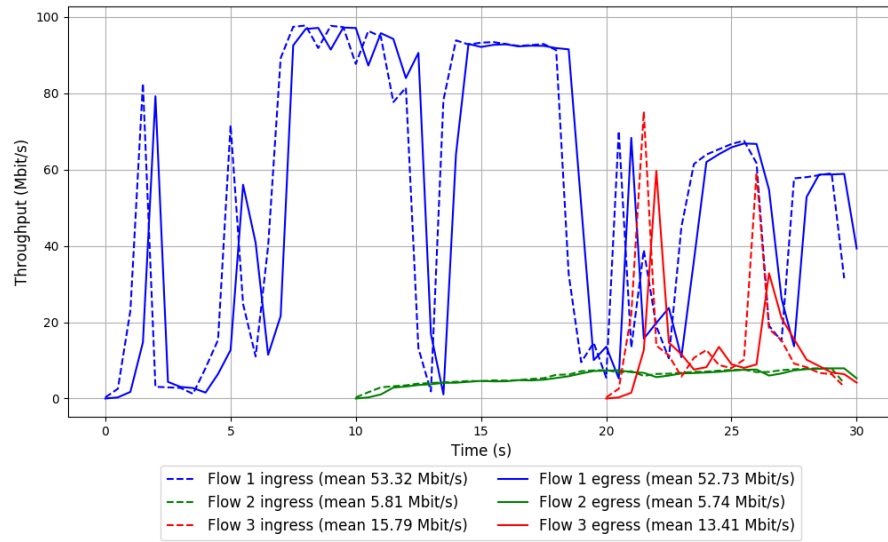
-- Flow 3:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 114.798 ms

Loss rate: 15.07%

## Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 16:48:26

End at: 2018-05-24 16:48:56

Local clock offset: -3.012 ms

Remote clock offset: 5.92 ms

# Below is generated by plot.py at 2018-05-24 17:21:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 110.820 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 41.53 Mbit/s

95th percentile per-packet one-way delay: 111.256 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 30.39 Mbit/s

95th percentile per-packet one-way delay: 110.053 ms

Loss rate: 0.45%

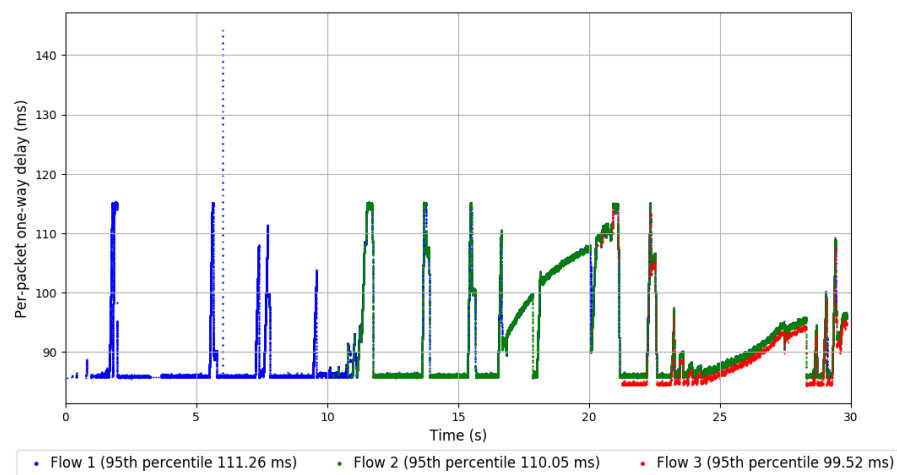
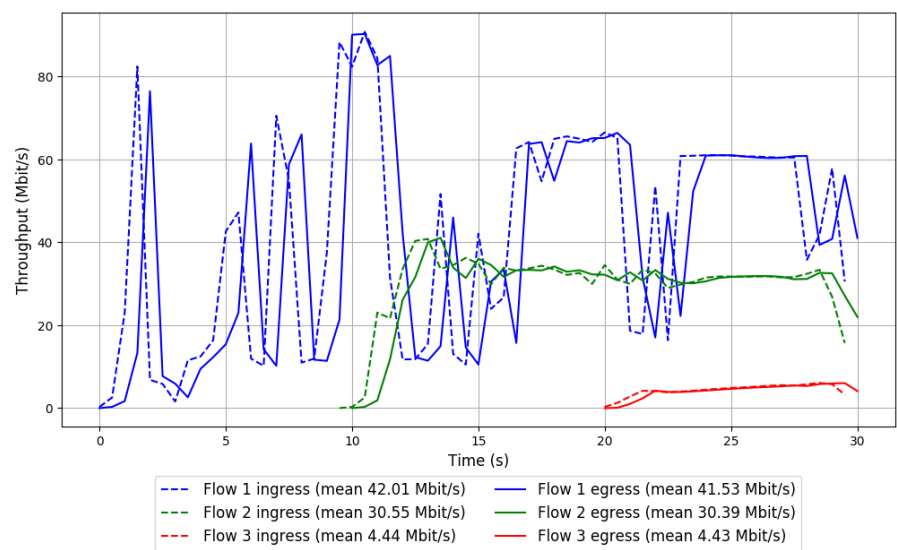
-- Flow 3:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 99.517 ms

Loss rate: 0.34%

Run 10: Report of QUIC Cubic — Data Link

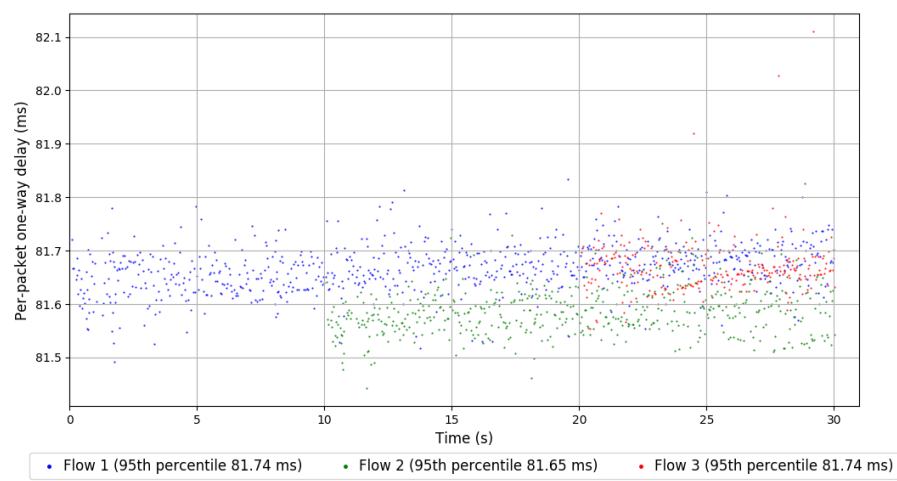
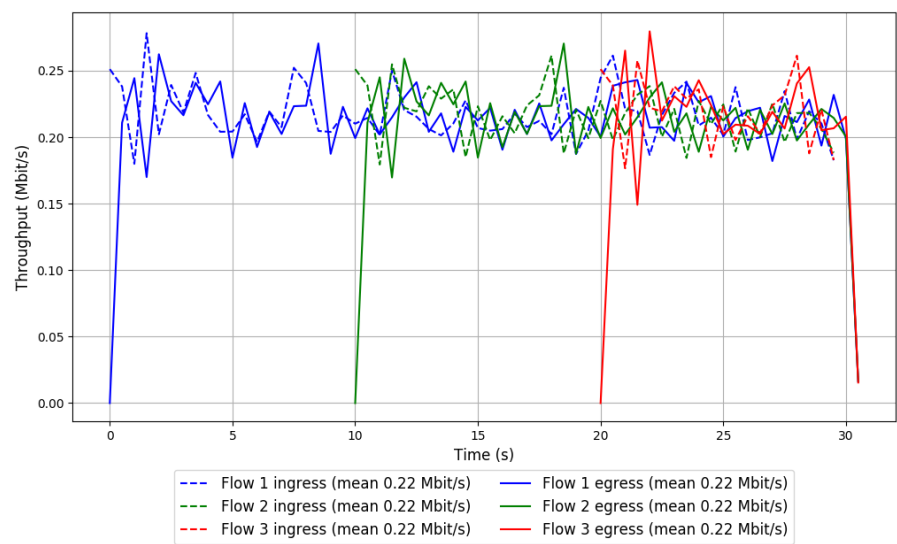


```
Run 1: Statistics of SReAM

Start at: 2018-05-24 14:00:00
End at: 2018-05-24 14:00:30
Local clock offset: -1.674 ms
Remote clock offset: 7.239 ms

# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.652 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.737 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-05-24 14:19:39

End at: 2018-05-24 14:20:09

Local clock offset: -2.841 ms

Remote clock offset: 8.293 ms

# Below is generated by plot.py at 2018-05-24 17:21:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 87.349 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 87.368 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.311 ms

Loss rate: 0.00%

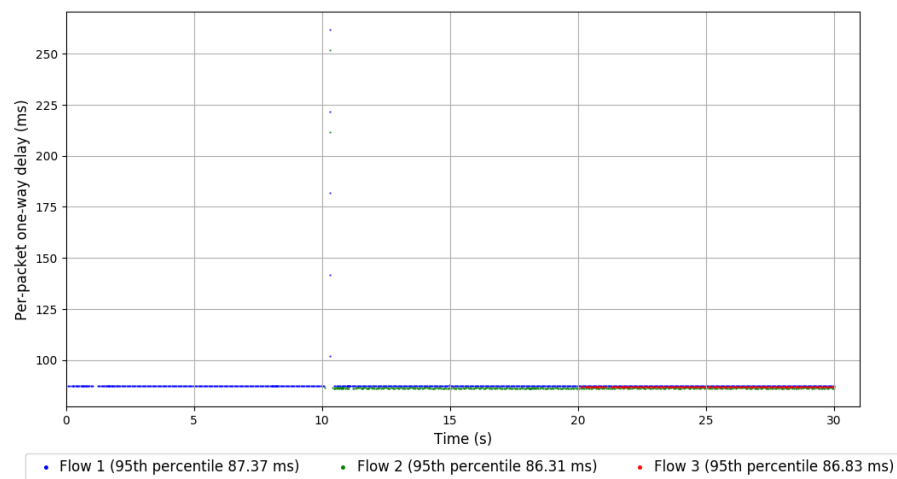
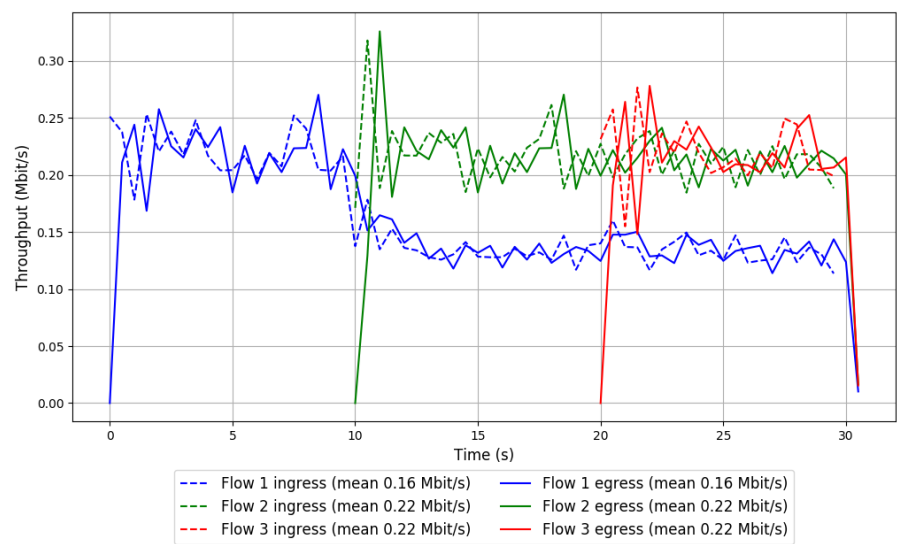
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

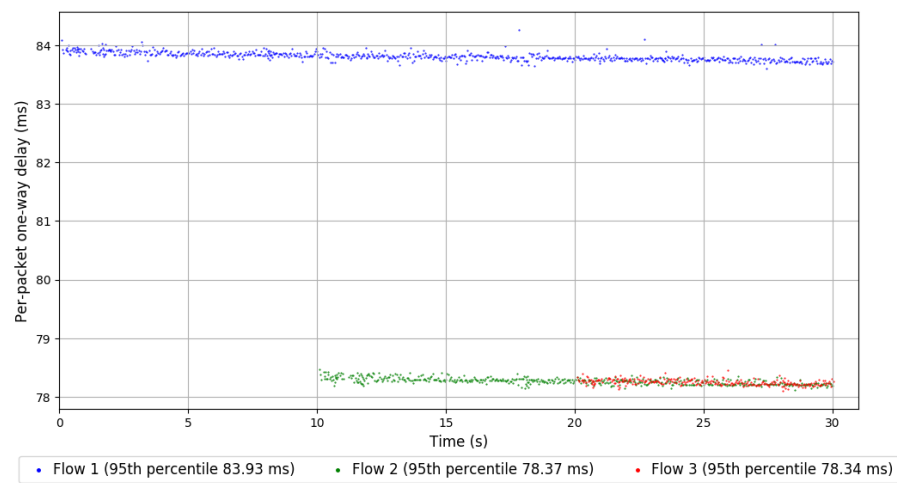
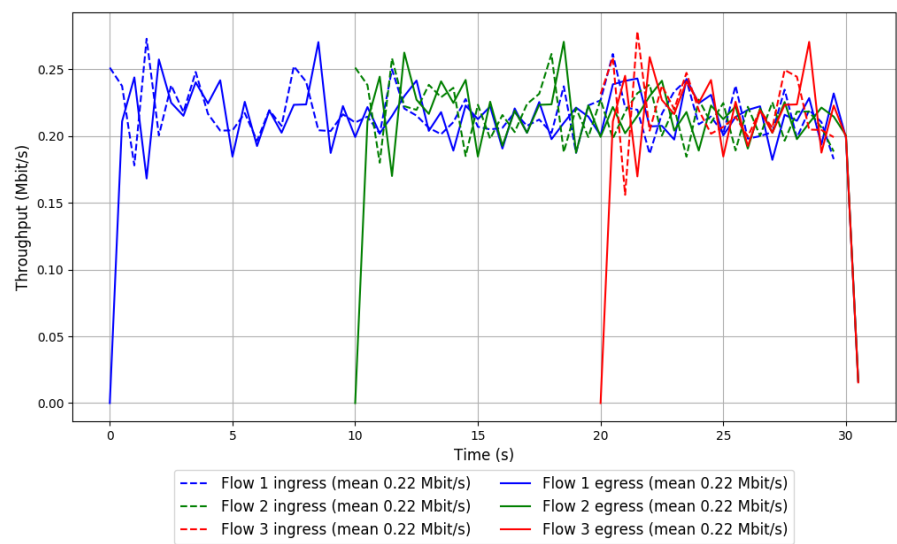


Run 3: Statistics of SReAM

Start at: 2018-05-24 14:39:19  
End at: 2018-05-24 14:39:49  
Local clock offset: -1.892 ms  
Remote clock offset: 16.459 ms

# Below is generated by plot.py at 2018-05-24 17:21:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 83.902 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.931 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 78.374 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 78.337 ms  
Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link

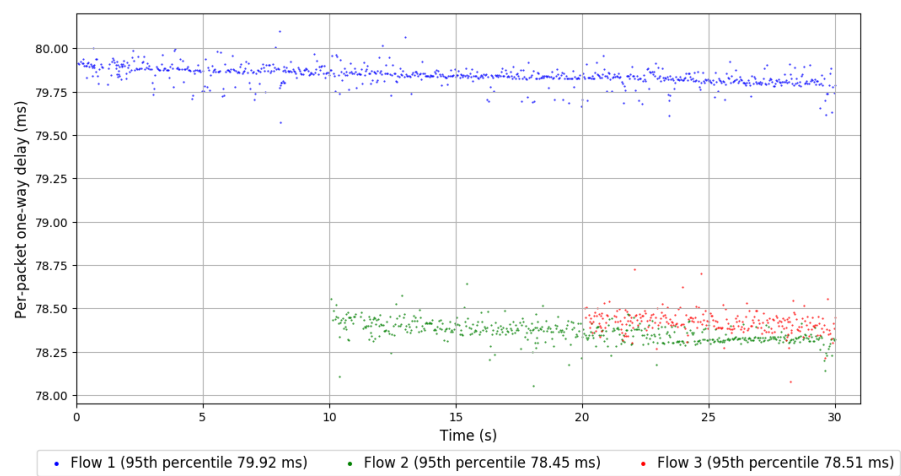
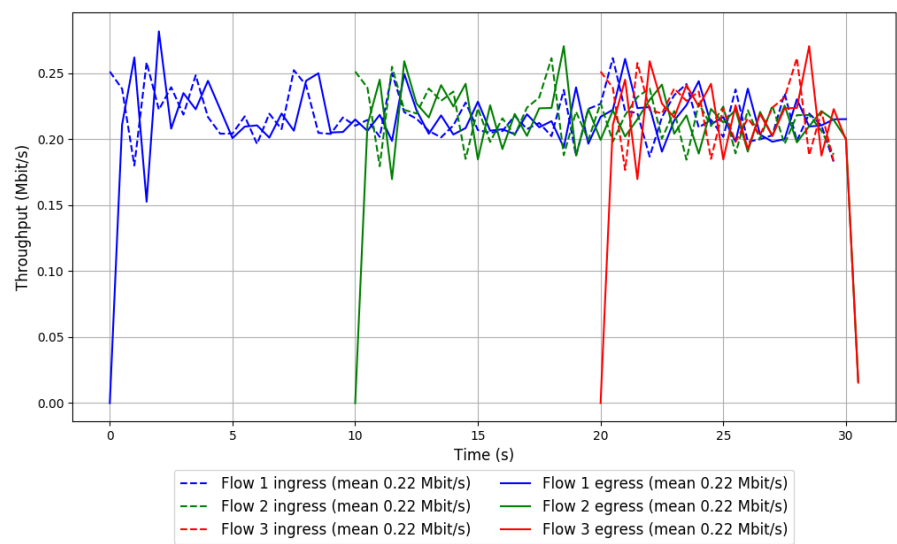


Run 4: Statistics of SReAM

Start at: 2018-05-24 14:59:00  
End at: 2018-05-24 14:59:30  
Local clock offset: -1.88 ms  
Remote clock offset: 21.884 ms

# Below is generated by plot.py at 2018-05-24 17:21:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 79.903 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.925 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 78.454 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 78.508 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

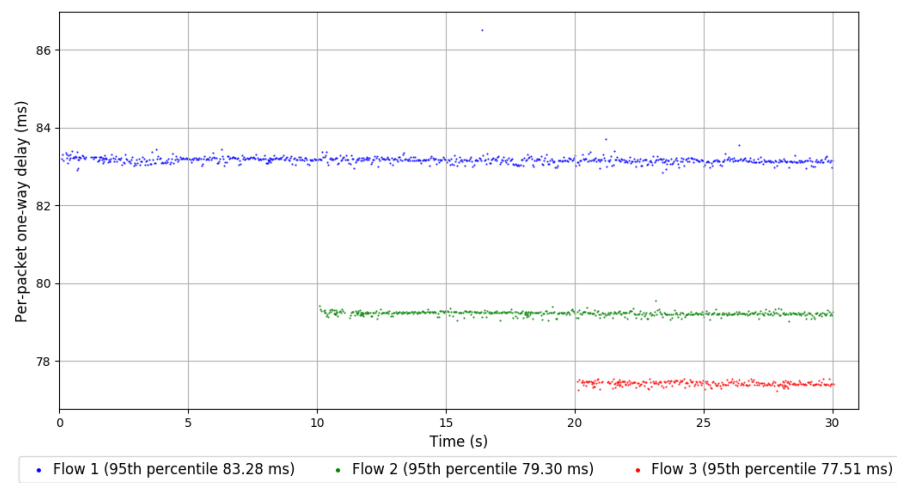
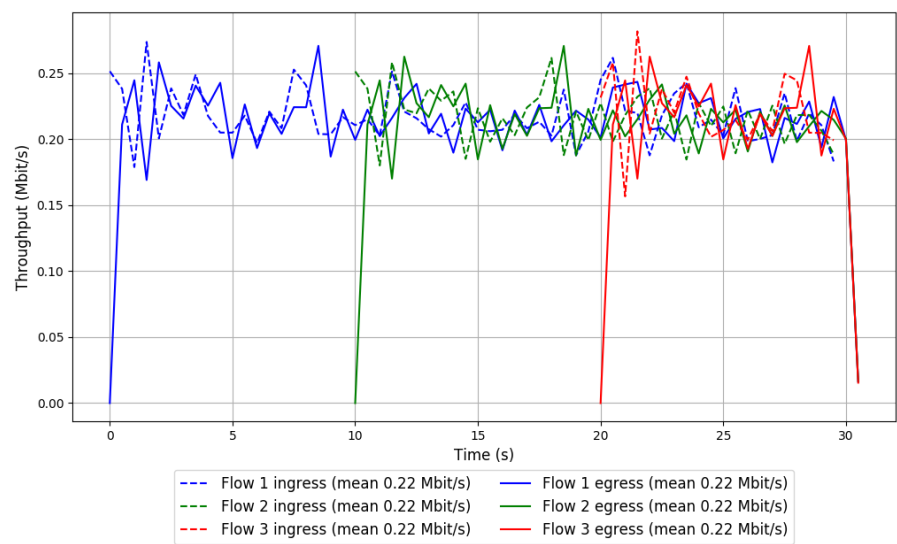


Run 5: Statistics of SReAM

Start at: 2018-05-24 15:18:40  
End at: 2018-05-24 15:19:10  
Local clock offset: -1.239 ms  
Remote clock offset: 25.517 ms

# Below is generated by plot.py at 2018-05-24 17:21:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 83.244 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.278 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.299 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 77.506 ms  
Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-24 15:38:21

End at: 2018-05-24 15:38:51

Local clock offset: -2.278 ms

Remote clock offset: 13.53 ms

# Below is generated by plot.py at 2018-05-24 17:21:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 81.160 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.169 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.084 ms

Loss rate: 0.00%

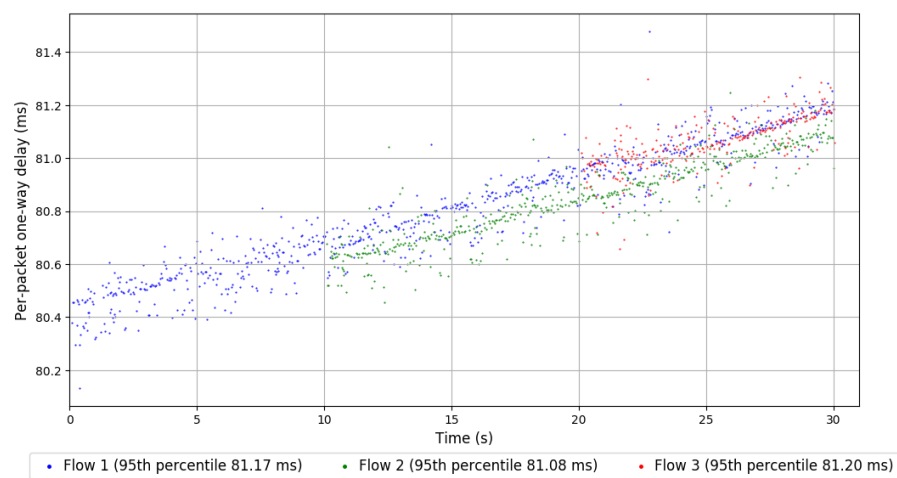
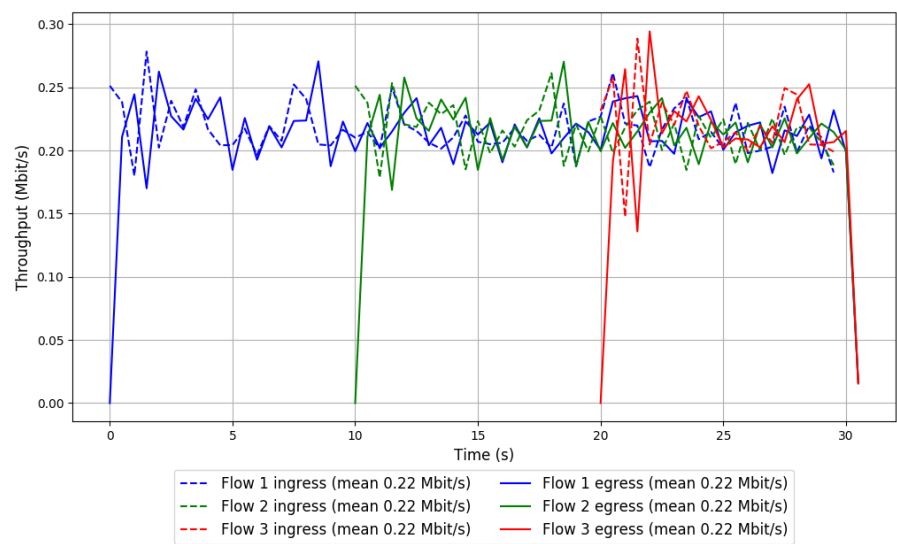
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.204 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

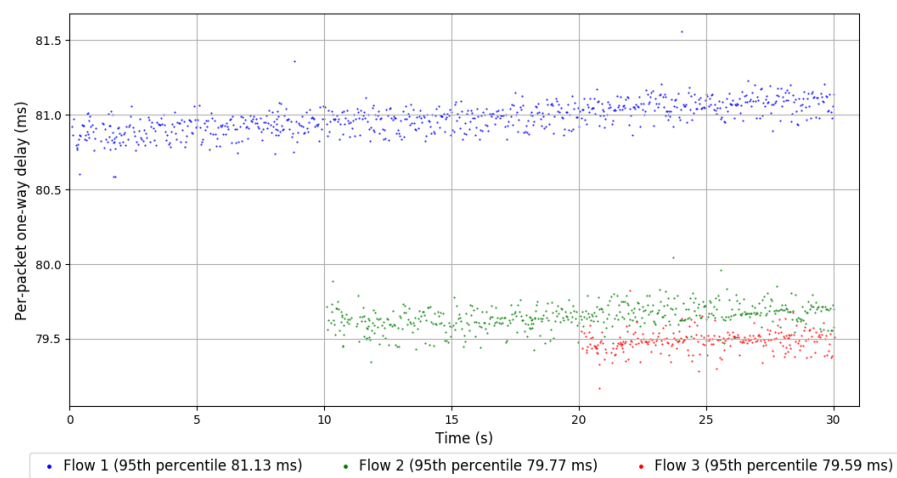
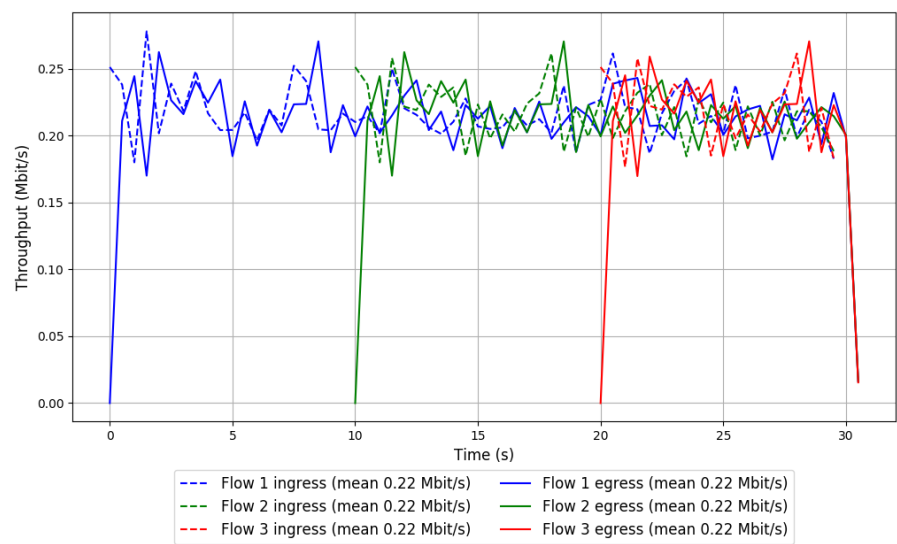


Run 7: Statistics of SReAM

Start at: 2018-05-24 15:58:01  
End at: 2018-05-24 15:58:31  
Local clock offset: -2.427 ms  
Remote clock offset: -0.73 ms

# Below is generated by plot.py at 2018-05-24 17:21:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 81.106 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.132 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.771 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.591 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-24 16:17:42

End at: 2018-05-24 16:18:12

Local clock offset: -2.219 ms

Remote clock offset: 1.272 ms

# Below is generated by plot.py at 2018-05-24 17:21:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 81.367 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.554 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.408 ms

Loss rate: 0.00%

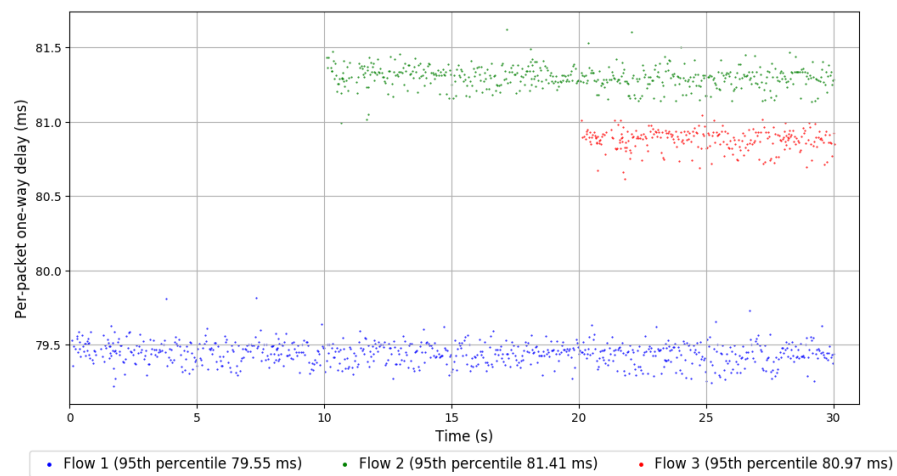
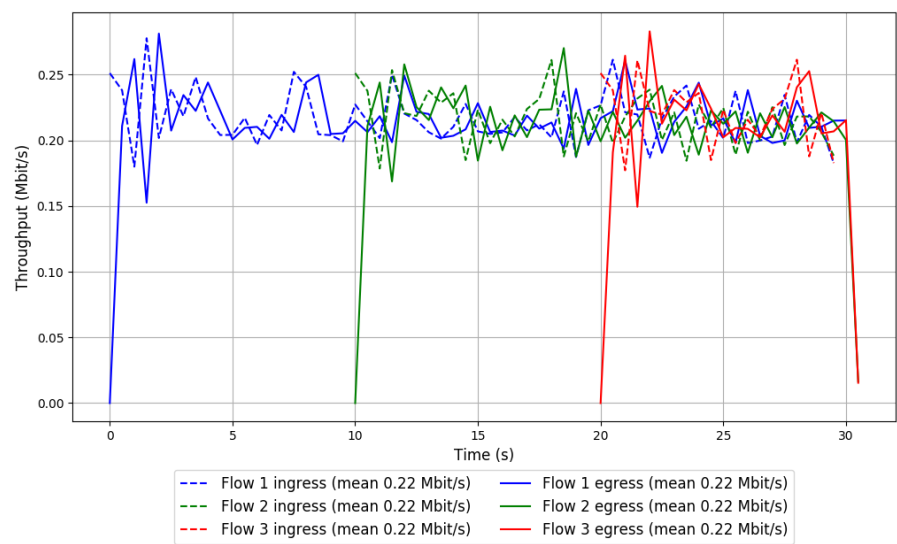
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.974 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-24 16:37:22

End at: 2018-05-24 16:37:52

Local clock offset: -2.219 ms

Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2018-05-24 17:21:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 80.110 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.132 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.306 ms

Loss rate: 0.00%

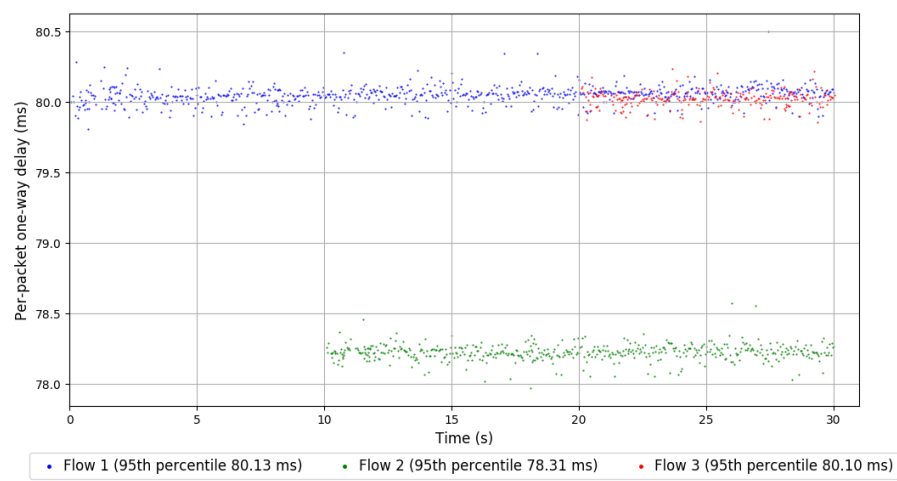
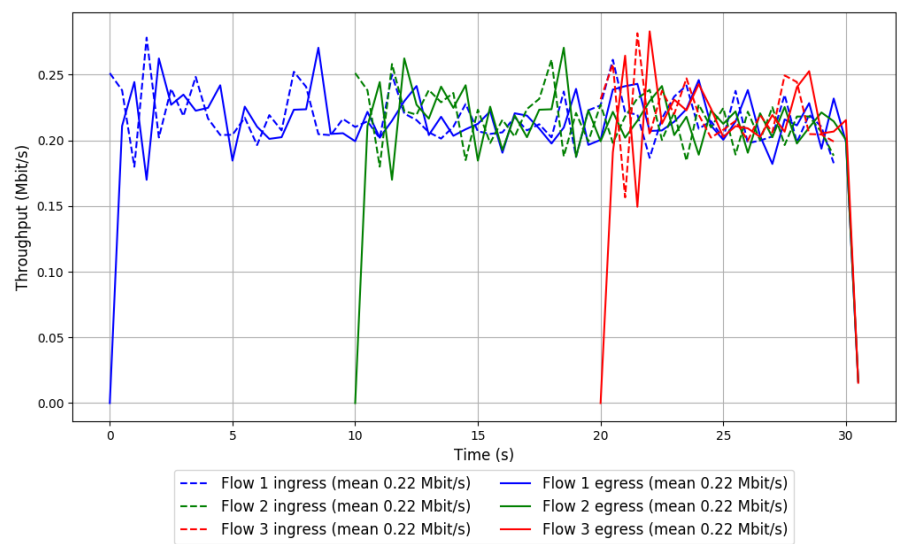
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.100 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-24 16:57:00

End at: 2018-05-24 16:57:30

Local clock offset: -1.382 ms

Remote clock offset: 2.685 ms

# Below is generated by plot.py at 2018-05-24 17:21:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 79.276 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.299 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.923 ms

Loss rate: 0.00%

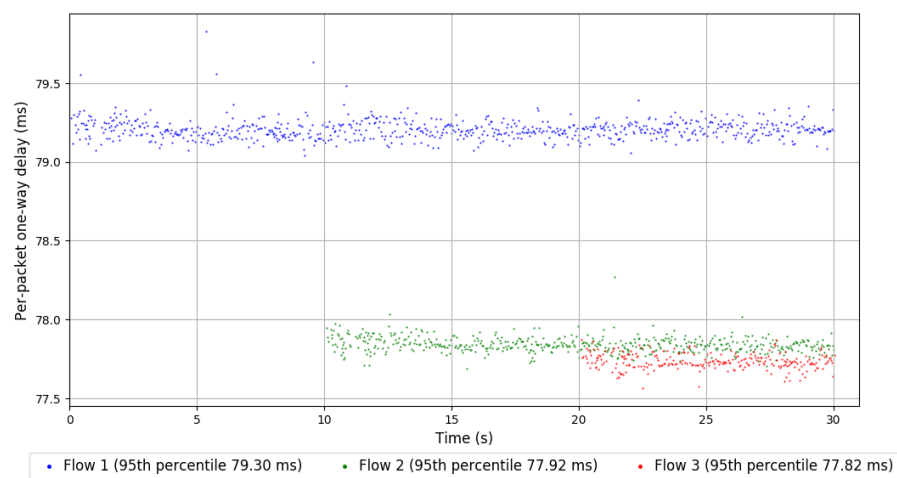
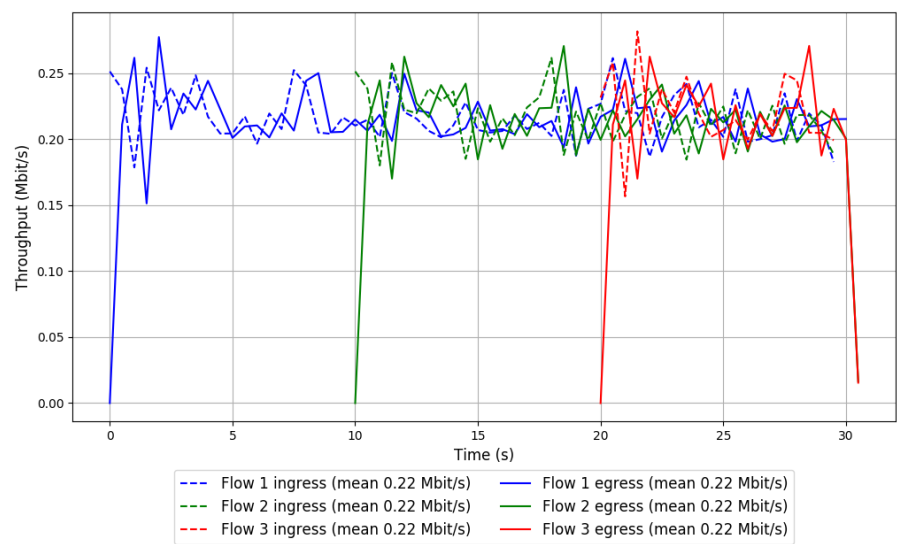
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.818 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

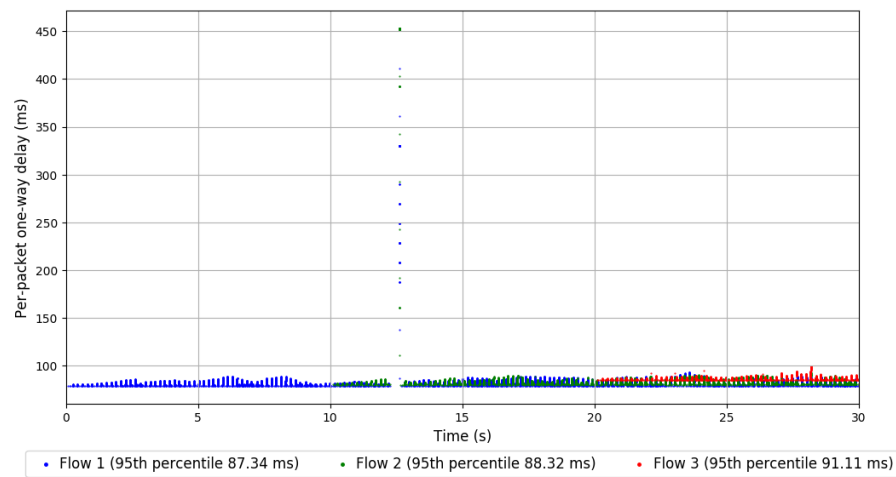
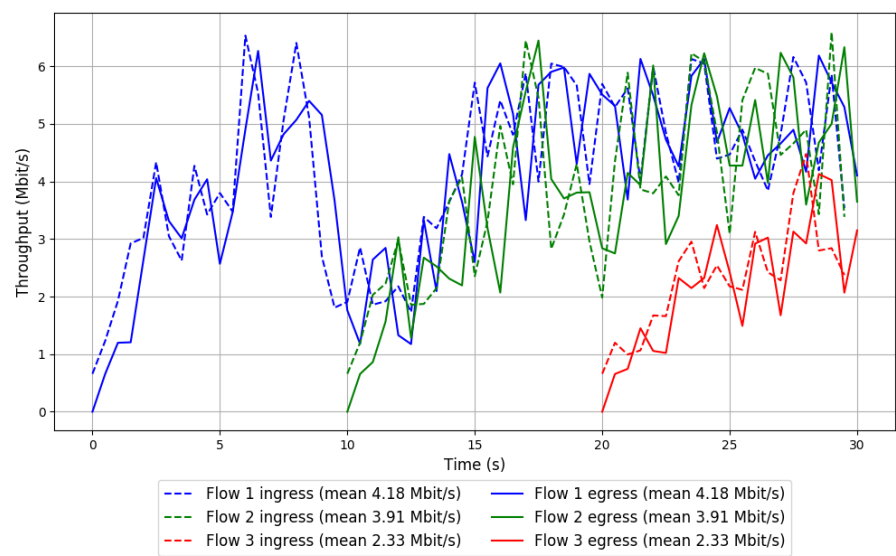


Run 1: Statistics of Sprout

Start at: 2018-05-24 13:57:35  
End at: 2018-05-24 13:58:05  
Local clock offset: -2.515 ms  
Remote clock offset: 4.361 ms

# Below is generated by plot.py at 2018-05-24 17:21:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.54 Mbit/s  
95th percentile per-packet one-way delay: 88.478 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.18 Mbit/s  
95th percentile per-packet one-way delay: 87.338 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.91 Mbit/s  
95th percentile per-packet one-way delay: 88.323 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: 91.111 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

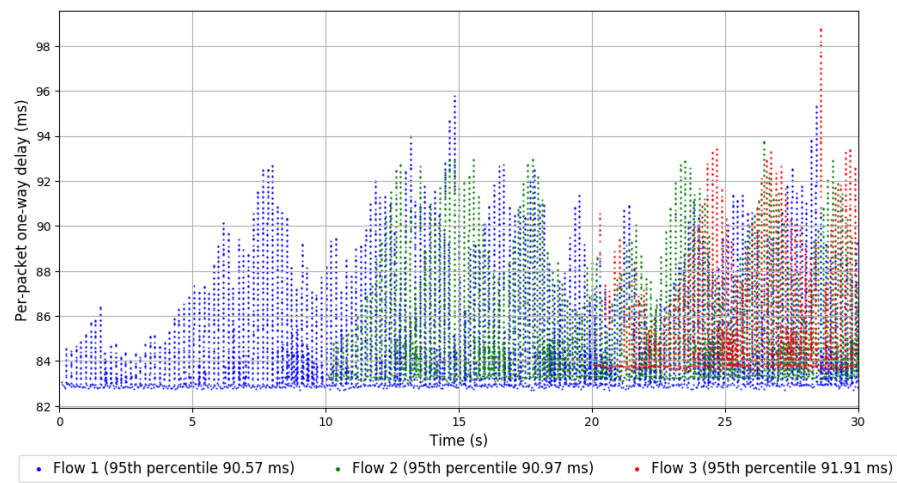
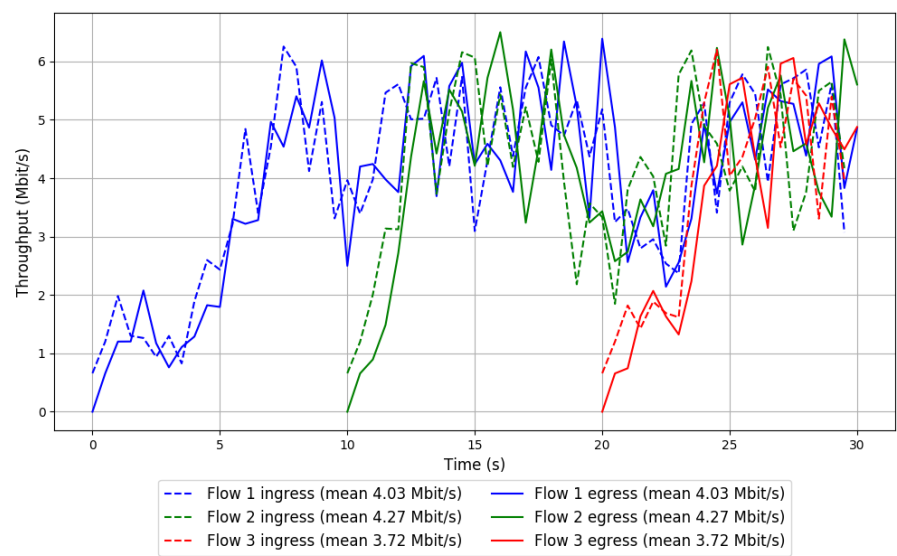


Run 2: Statistics of Sprout

Start at: 2018-05-24 14:17:15  
End at: 2018-05-24 14:17:45  
Local clock offset: -2.105 ms  
Remote clock offset: 7.447 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 90.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 90.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 90.965 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 91.910 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

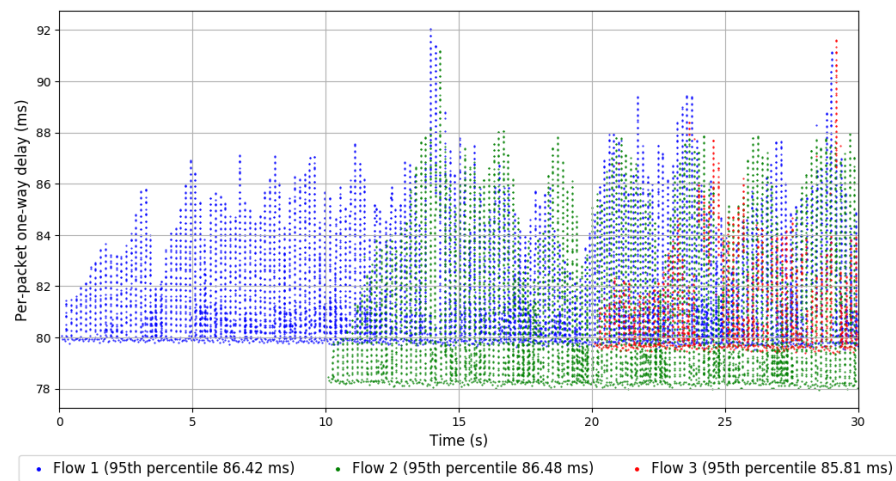
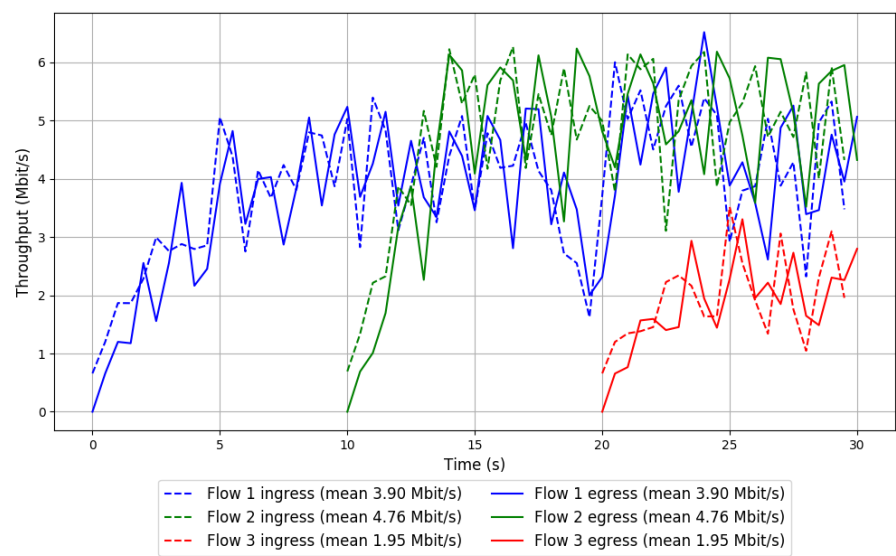


### Run 3: Statistics of Sprout

Start at: 2018-05-24 14:36:55  
End at: 2018-05-24 14:37:25  
Local clock offset: -1.965 ms  
Remote clock offset: 15.448 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 86.419 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 86.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 85.812 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

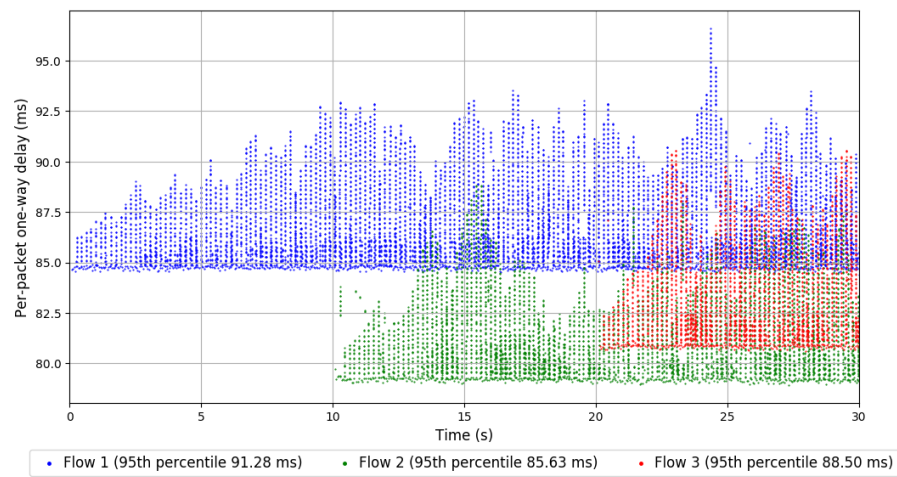
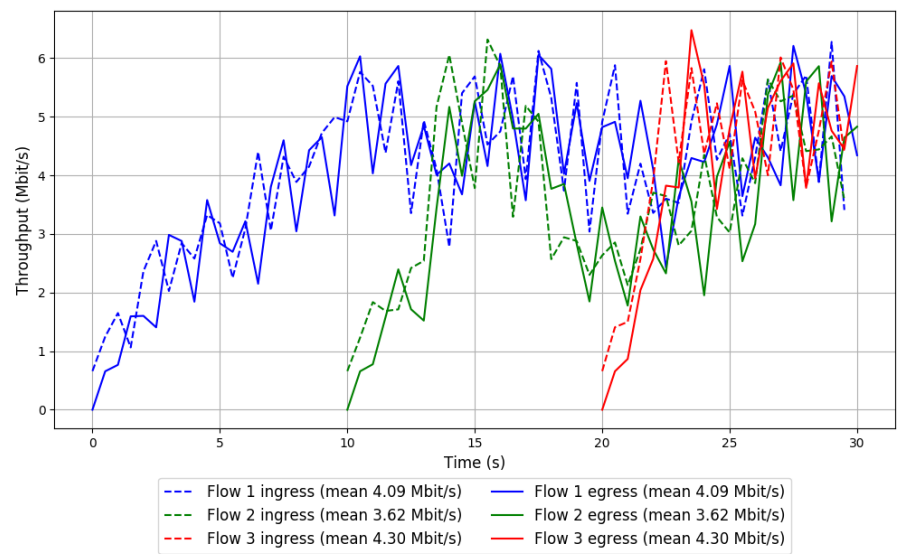


Run 4: Statistics of Sprout

Start at: 2018-05-24 14:56:35  
End at: 2018-05-24 14:57:05  
Local clock offset: -2.652 ms  
Remote clock offset: 21.422 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 90.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 91.279 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 85.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 88.498 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

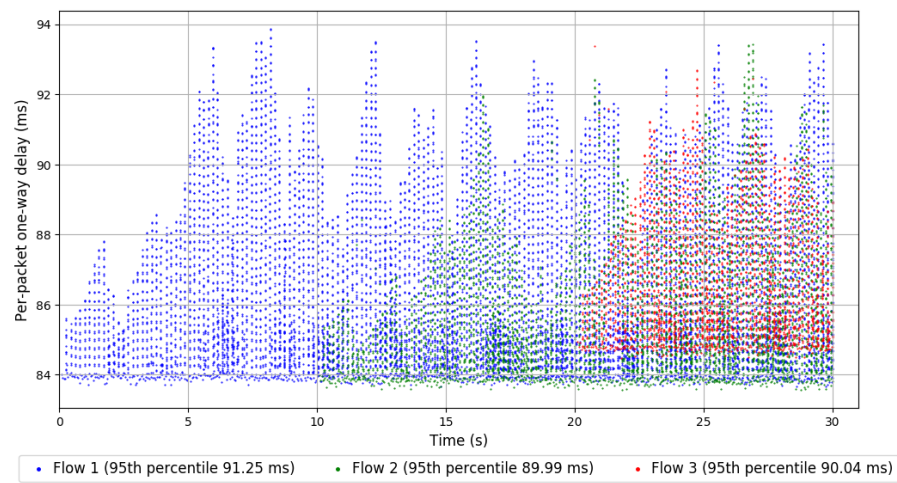
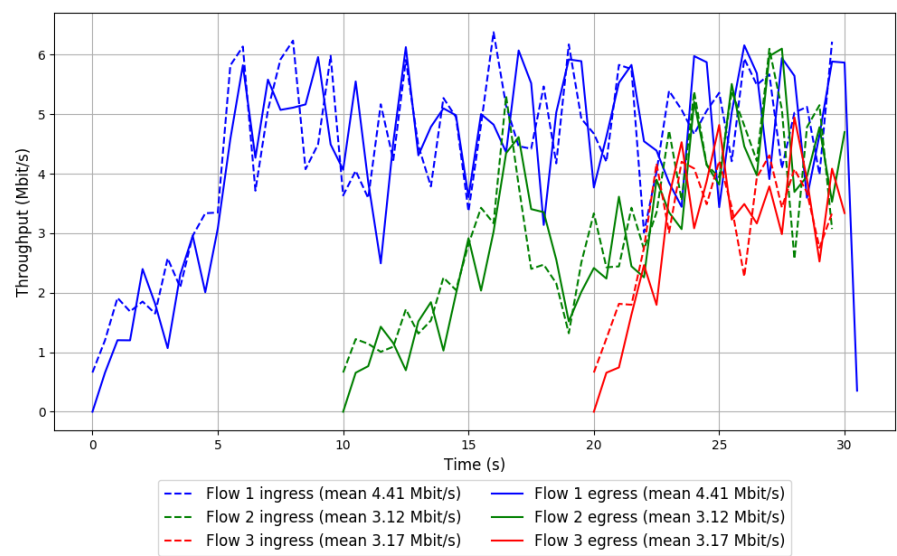


Run 5: Statistics of Sprout

Start at: 2018-05-24 15:16:15  
End at: 2018-05-24 15:16:45  
Local clock offset: -1.185 ms  
Remote clock offset: 29.834 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 90.839 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 91.250 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 89.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 90.039 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

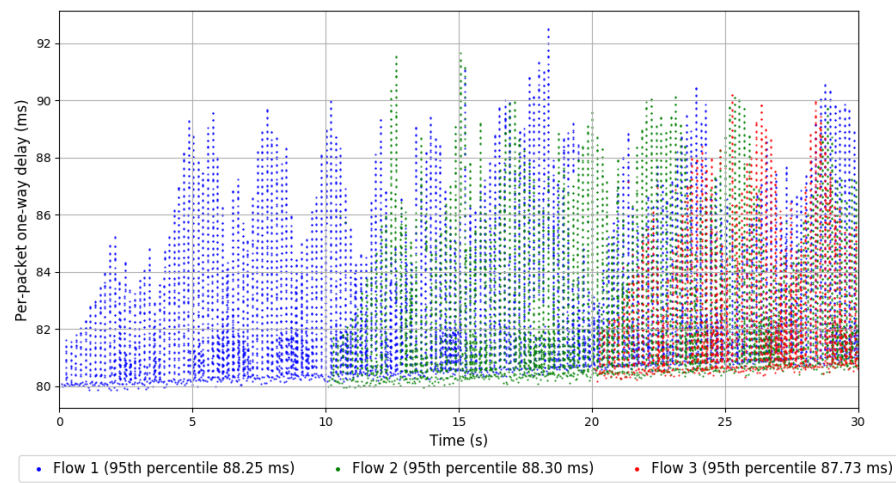
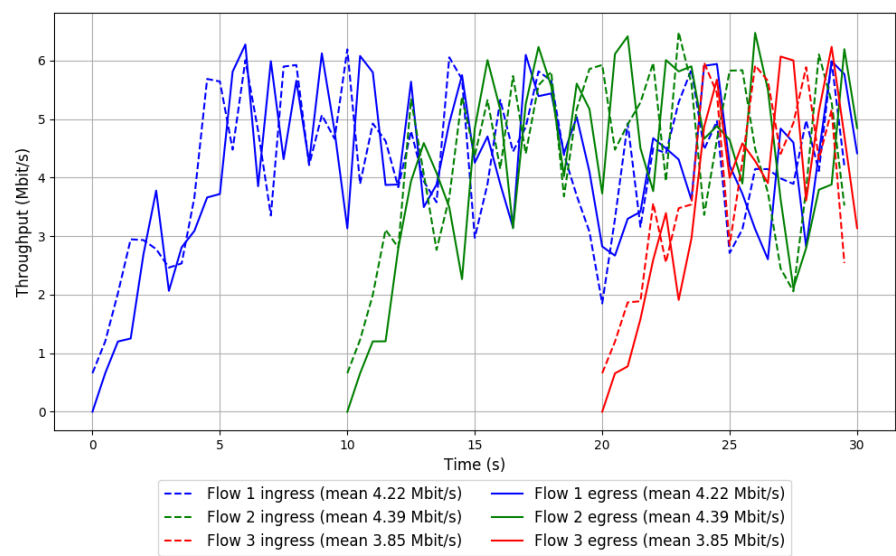


Run 6: Statistics of Sprout

Start at: 2018-05-24 15:35:56  
End at: 2018-05-24 15:36:26  
Local clock offset: -2.235 ms  
Remote clock offset: 18.781 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 88.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 88.246 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 88.303 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 87.727 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

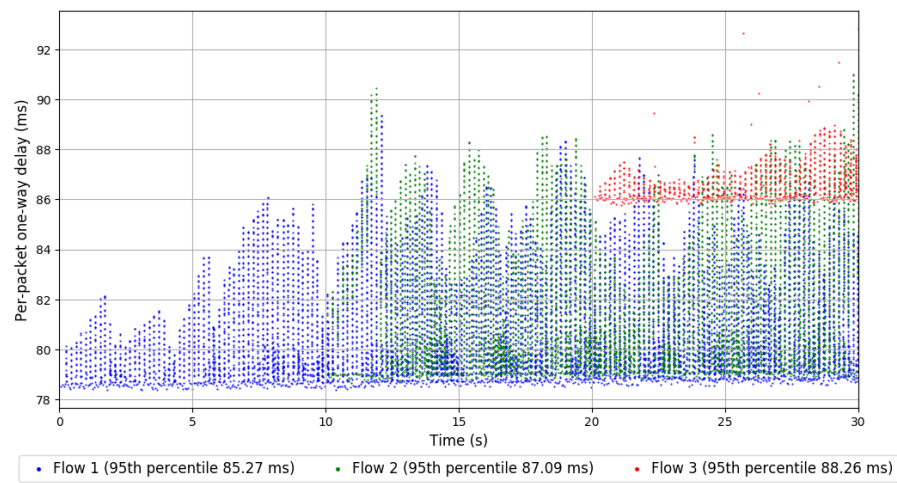
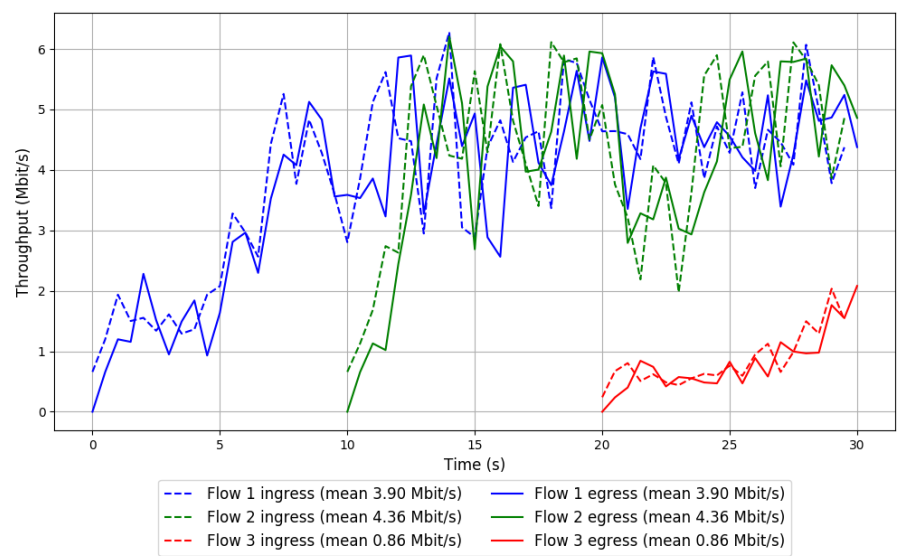


Run 7: Statistics of Sprout

Start at: 2018-05-24 15:55:37  
End at: 2018-05-24 15:56:07  
Local clock offset: -1.728 ms  
Remote clock offset: 0.26 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 86.810 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 85.265 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 87.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 88.256 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

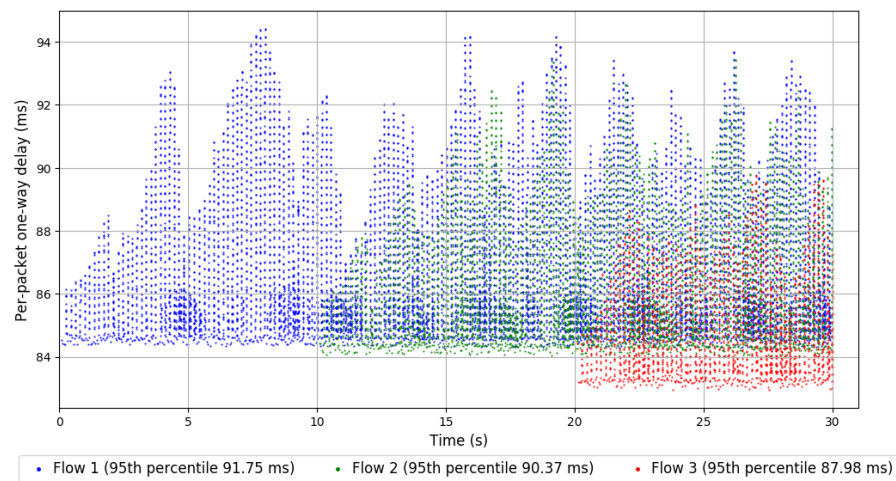
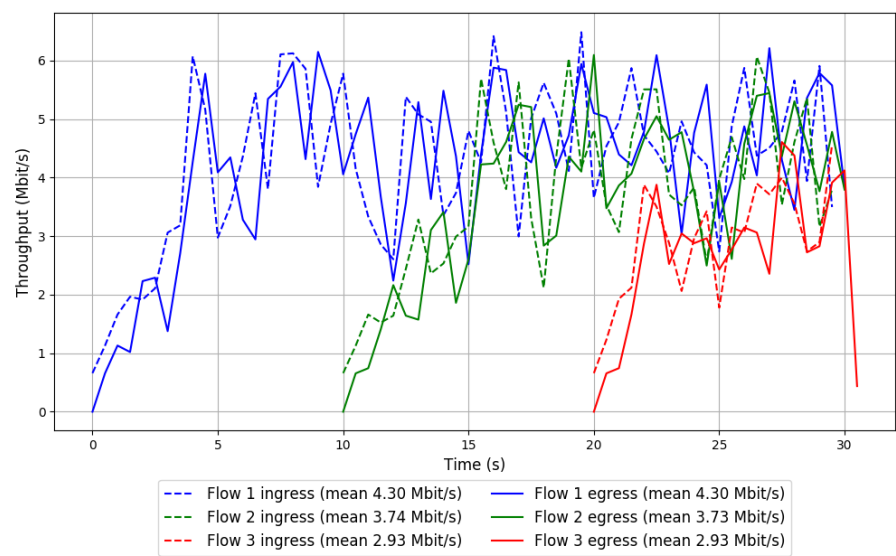


Run 8: Statistics of Sprout

Start at: 2018-05-24 16:15:17  
End at: 2018-05-24 16:15:47  
Local clock offset: -2.281 ms  
Remote clock offset: 4.481 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 91.220 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 91.747 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 90.370 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 87.978 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

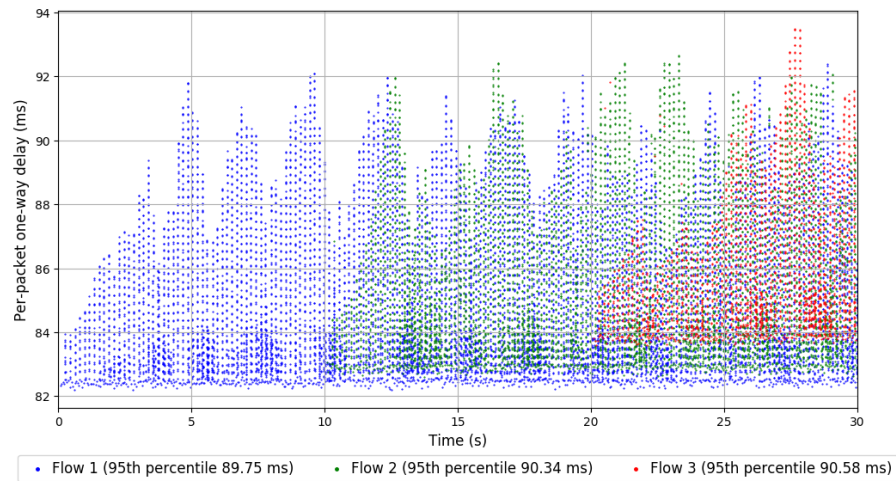
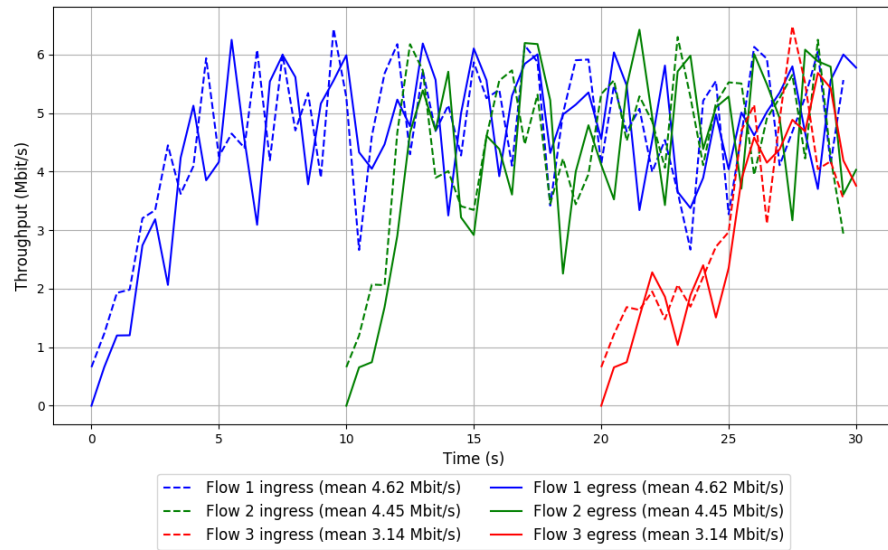


Run 9: Statistics of Sprout

Start at: 2018-05-24 16:34:57  
End at: 2018-05-24 16:35:27  
Local clock offset: -2.226 ms  
Remote clock offset: 4.395 ms

# Below is generated by plot.py at 2018-05-24 17:21:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 90.085 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.62 Mbit/s  
95th percentile per-packet one-way delay: 89.753 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 90.336 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.14 Mbit/s  
95th percentile per-packet one-way delay: 90.579 ms  
Loss rate: 0.00%

# Run 9: Report of Sprout — Data Link

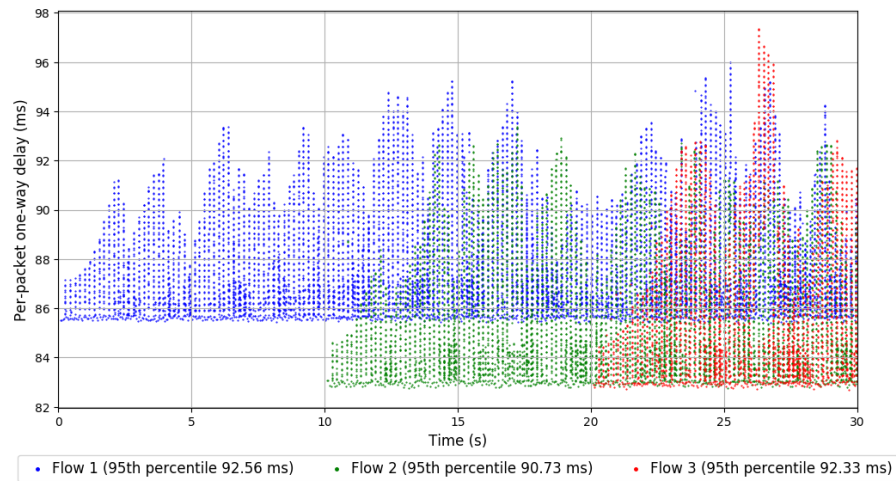
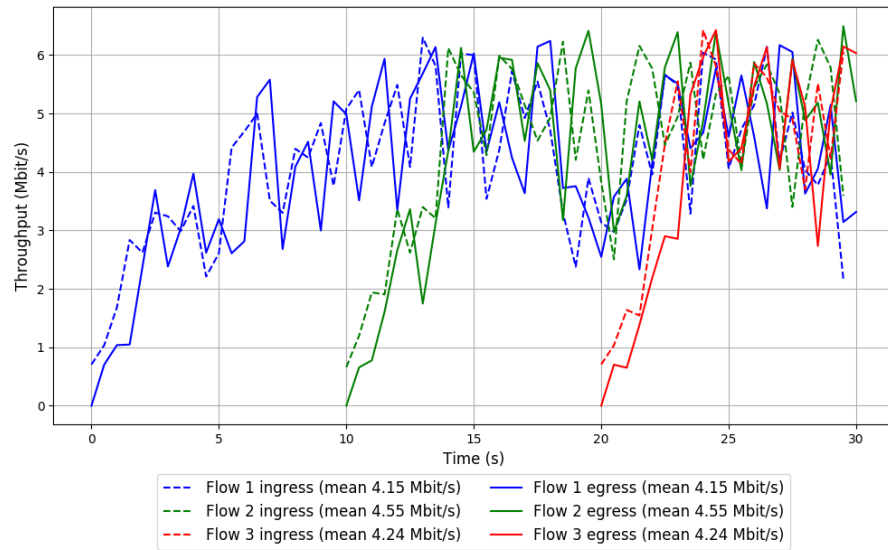


Run 10: Statistics of Sprout

Start at: 2018-05-24 16:54:36  
End at: 2018-05-24 16:55:06  
Local clock offset: -2.158 ms  
Remote clock offset: 7.217 ms

```
# Below is generated by plot.py at 2018-05-24 17:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 92.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 92.559 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 90.731 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 92.335 ms
Loss rate: 0.03%
```

# Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 13:56:17

End at: 2018-05-24 13:56:47

Local clock offset: -3.339 ms

Remote clock offset: 8.963 ms

# Below is generated by plot.py at 2018-05-24 17:22:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 115.832 ms

Loss rate: 5.53%

-- Flow 1:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 115.766 ms

Loss rate: 3.62%

-- Flow 2:

Average throughput: 25.91 Mbit/s

95th percentile per-packet one-way delay: 116.018 ms

Loss rate: 10.27%

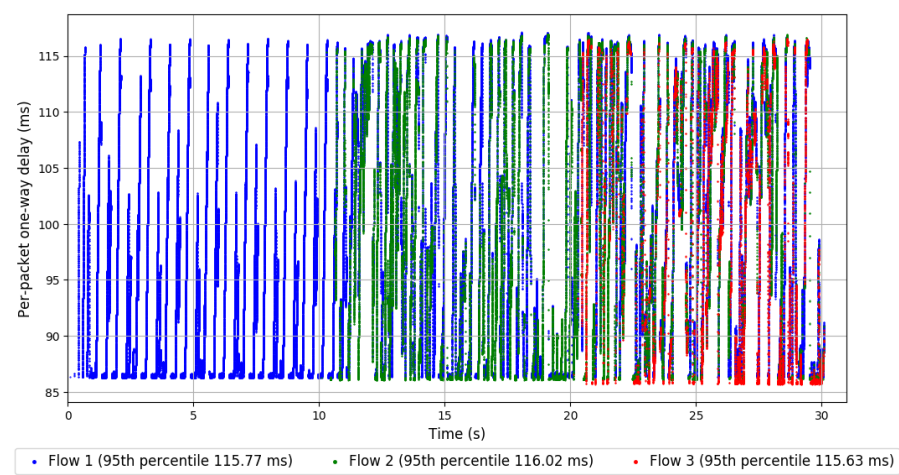
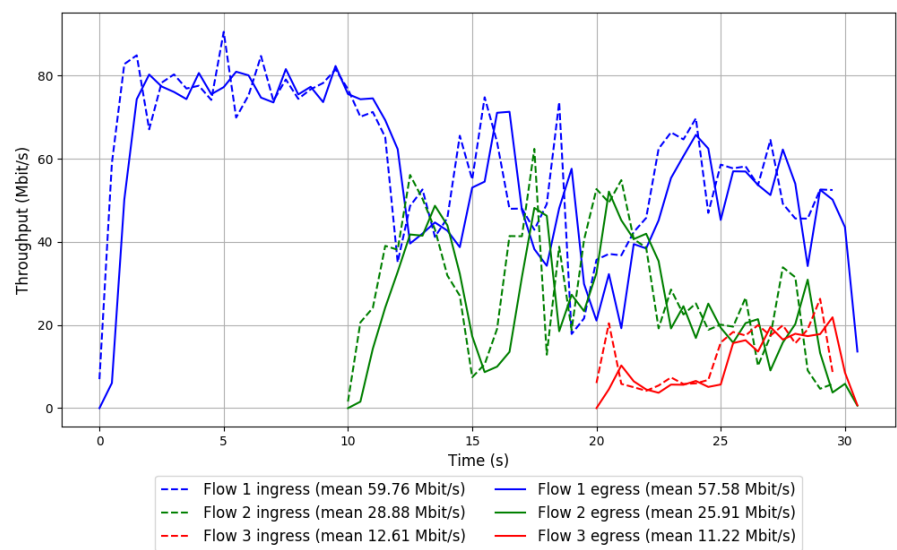
-- Flow 3:

Average throughput: 11.22 Mbit/s

95th percentile per-packet one-way delay: 115.634 ms

Loss rate: 10.98%

Run 1: Report of TaoVA-100x — Data Link



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 14:15:57

End at: 2018-05-24 14:16:27

Local clock offset: -2.879 ms

Remote clock offset: 6.589 ms

# Below is generated by plot.py at 2018-05-24 17:23:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 114.358 ms

Loss rate: 6.50%

-- Flow 1:

Average throughput: 44.43 Mbit/s

95th percentile per-packet one-way delay: 114.046 ms

Loss rate: 4.81%

-- Flow 2:

Average throughput: 39.47 Mbit/s

95th percentile per-packet one-way delay: 114.804 ms

Loss rate: 7.44%

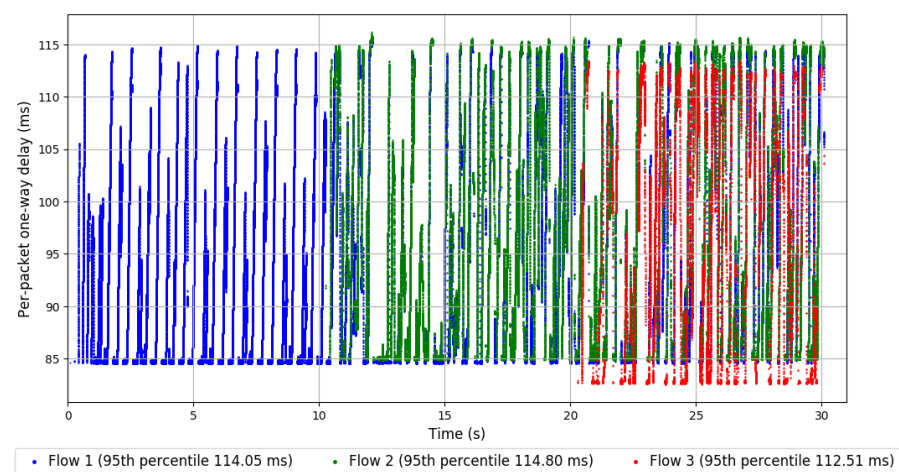
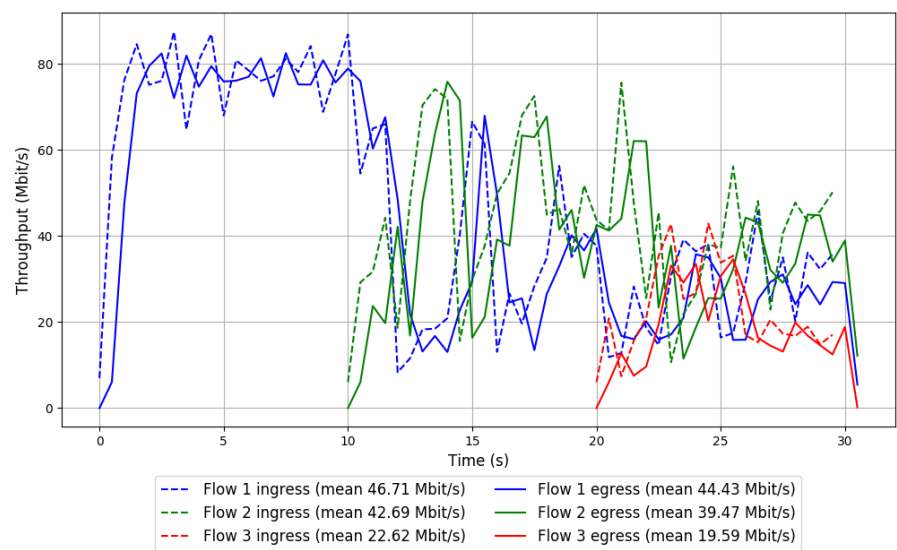
-- Flow 3:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 112.508 ms

Loss rate: 13.47%

Run 2: Report of TaoVA-100x — Data Link

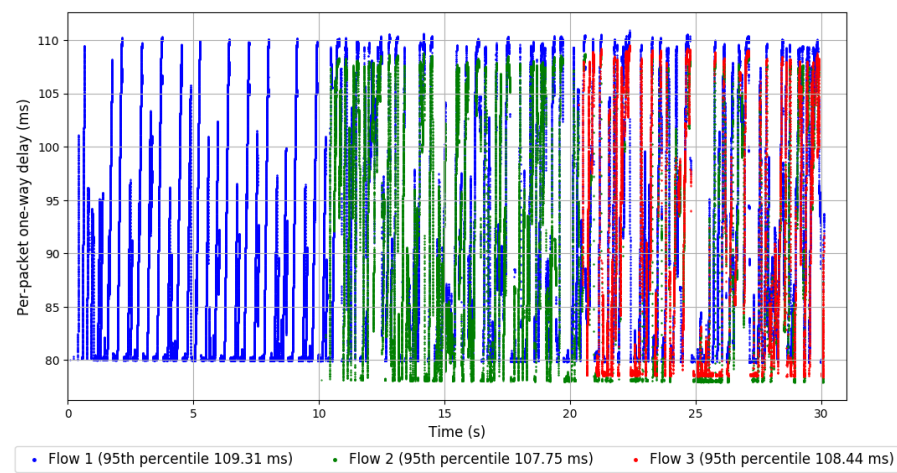
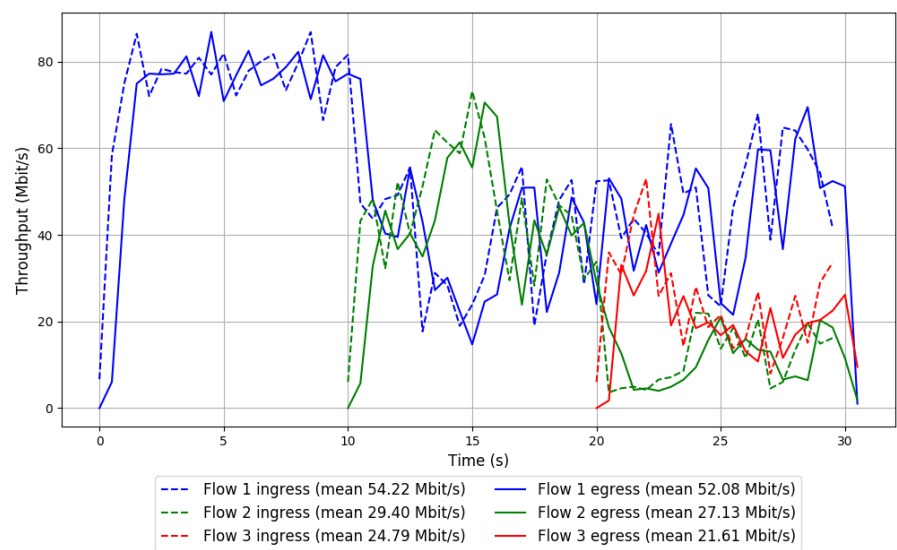


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 14:35:37  
End at: 2018-05-24 14:36:07  
Local clock offset: -1.918 ms  
Remote clock offset: 14.826 ms

# Below is generated by plot.py at 2018-05-24 17:23:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.33 Mbit/s  
95th percentile per-packet one-way delay: 108.967 ms  
Loss rate: 5.71%  
-- Flow 1:  
Average throughput: 52.08 Mbit/s  
95th percentile per-packet one-way delay: 109.305 ms  
Loss rate: 3.90%  
-- Flow 2:  
Average throughput: 27.13 Mbit/s  
95th percentile per-packet one-way delay: 107.747 ms  
Loss rate: 7.68%  
-- Flow 3:  
Average throughput: 21.61 Mbit/s  
95th percentile per-packet one-way delay: 108.445 ms  
Loss rate: 12.94%

Run 3: Report of TaoVA-100x — Data Link

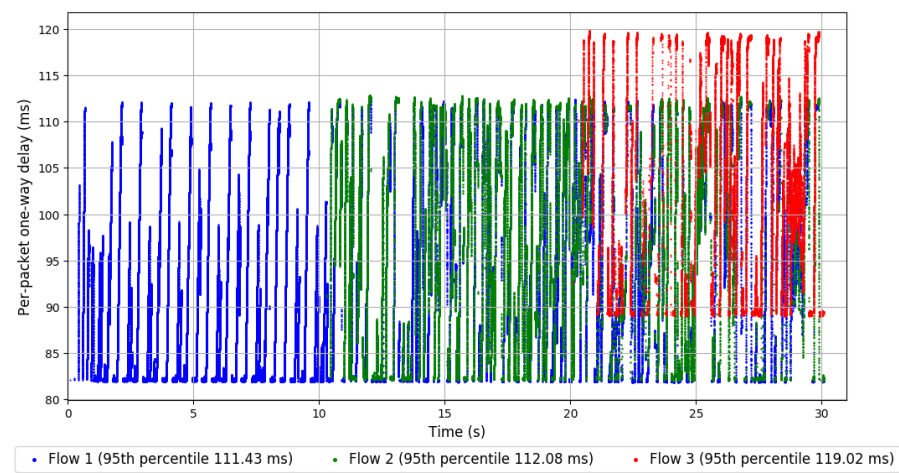
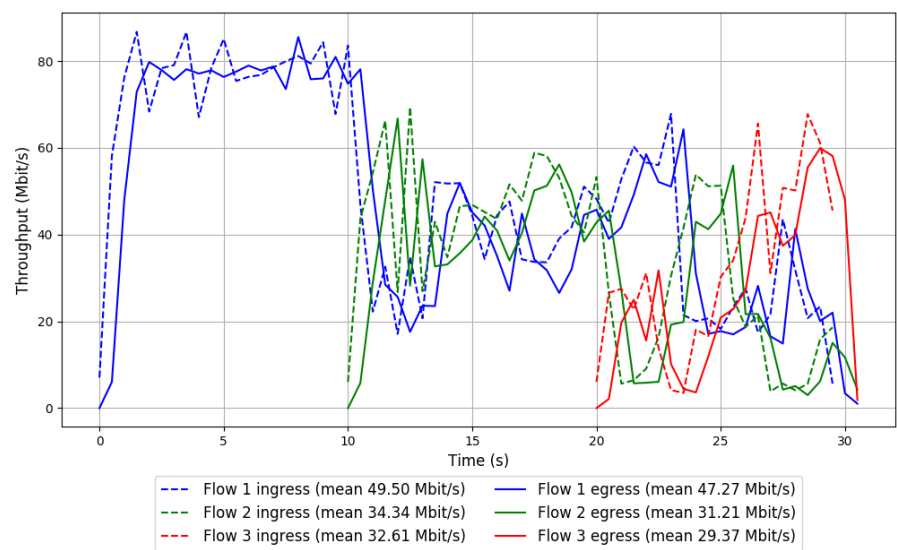


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 14:55:18  
End at: 2018-05-24 14:55:48  
Local clock offset: -1.787 ms  
Remote clock offset: 24.818 ms

# Below is generated by plot.py at 2018-05-24 17:23:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.81 Mbit/s  
95th percentile per-packet one-way delay: 112.198 ms  
Loss rate: 6.49%  
-- Flow 1:  
Average throughput: 47.27 Mbit/s  
95th percentile per-packet one-way delay: 111.429 ms  
Loss rate: 4.50%  
-- Flow 2:  
Average throughput: 31.21 Mbit/s  
95th percentile per-packet one-way delay: 112.076 ms  
Loss rate: 9.13%  
-- Flow 3:  
Average throughput: 29.37 Mbit/s  
95th percentile per-packet one-way delay: 119.022 ms  
Loss rate: 10.01%

Run 4: Report of TaoVA-100x — Data Link

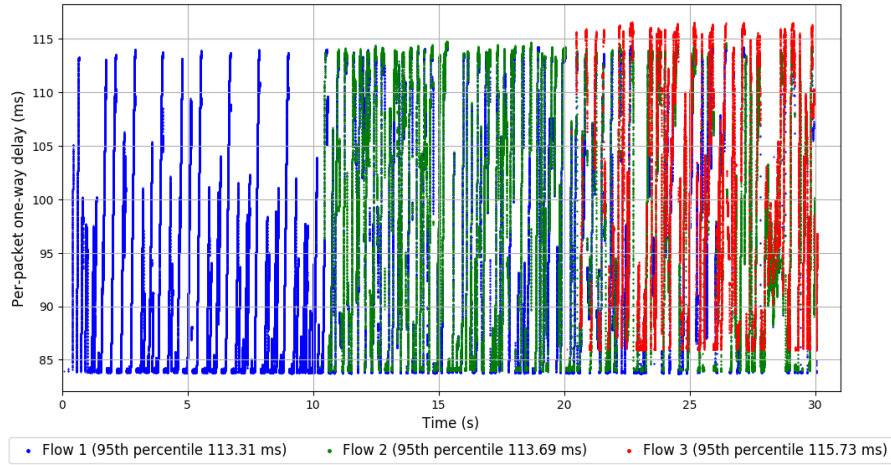
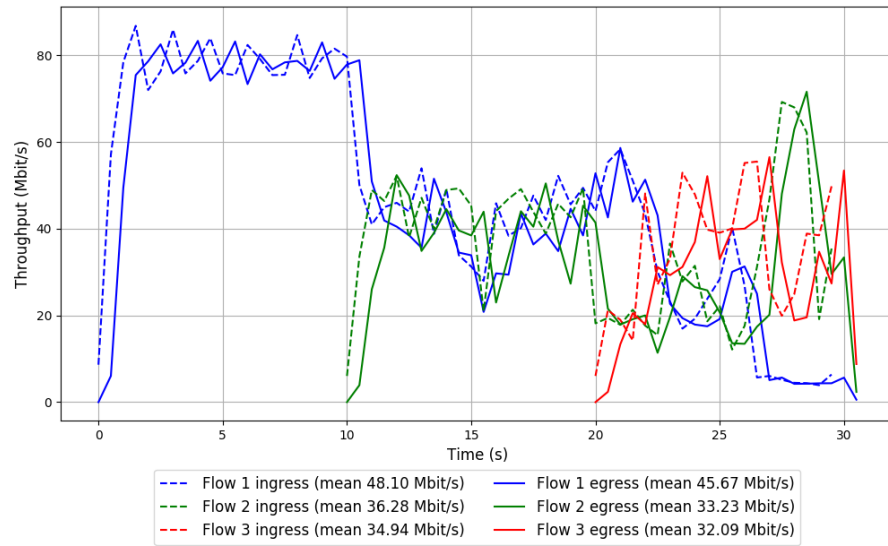


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 15:14:57  
End at: 2018-05-24 15:15:27  
Local clock offset: -2.798 ms  
Remote clock offset: 29.506 ms

# Below is generated by plot.py at 2018-05-24 17:23:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.40 Mbit/s  
95th percentile per-packet one-way delay: 113.677 ms  
Loss rate: 6.42%  
-- Flow 1:  
Average throughput: 45.67 Mbit/s  
95th percentile per-packet one-way delay: 113.311 ms  
Loss rate: 5.02%  
-- Flow 2:  
Average throughput: 33.23 Mbit/s  
95th percentile per-packet one-way delay: 113.686 ms  
Loss rate: 8.44%  
-- Flow 3:  
Average throughput: 32.09 Mbit/s  
95th percentile per-packet one-way delay: 115.727 ms  
Loss rate: 8.05%

# Run 5: Report of TaoVA-100x — Data Link

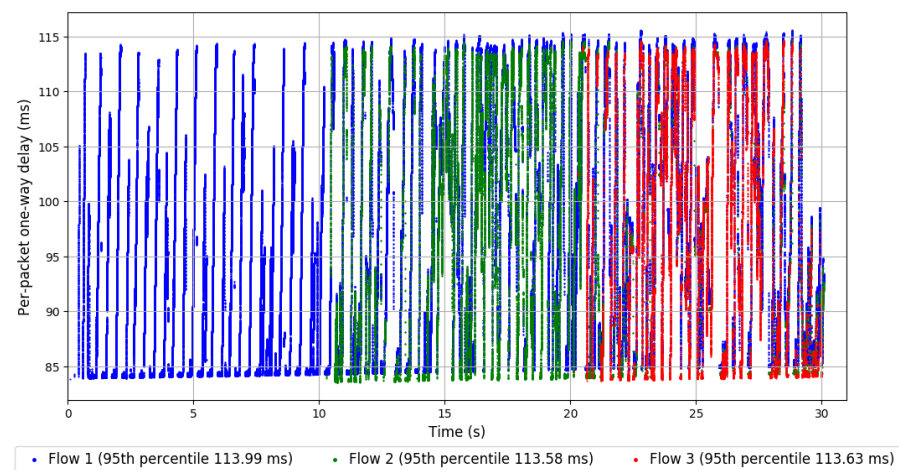
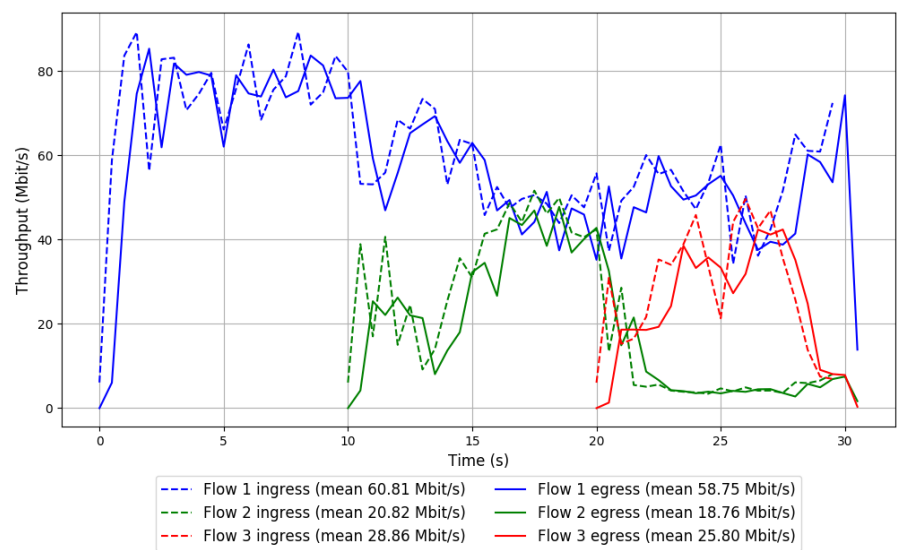


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 15:34:38  
End at: 2018-05-24 15:35:08  
Local clock offset: -1.437 ms  
Remote clock offset: 25.027 ms

# Below is generated by plot.py at 2018-05-24 17:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.77 Mbit/s  
95th percentile per-packet one-way delay: 113.844 ms  
Loss rate: 5.25%  
-- Flow 1:  
Average throughput: 58.75 Mbit/s  
95th percentile per-packet one-way delay: 113.992 ms  
Loss rate: 3.36%  
-- Flow 2:  
Average throughput: 18.76 Mbit/s  
95th percentile per-packet one-way delay: 113.581 ms  
Loss rate: 9.93%  
-- Flow 3:  
Average throughput: 25.80 Mbit/s  
95th percentile per-packet one-way delay: 113.626 ms  
Loss rate: 10.55%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 15:54:19

End at: 2018-05-24 15:54:49

Local clock offset: -3.246 ms

Remote clock offset: 0.934 ms

# Below is generated by plot.py at 2018-05-24 17:23:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.45 Mbit/s

95th percentile per-packet one-way delay: 112.392 ms

Loss rate: 6.48%

-- Flow 1:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 111.683 ms

Loss rate: 5.08%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 111.996 ms

Loss rate: 8.72%

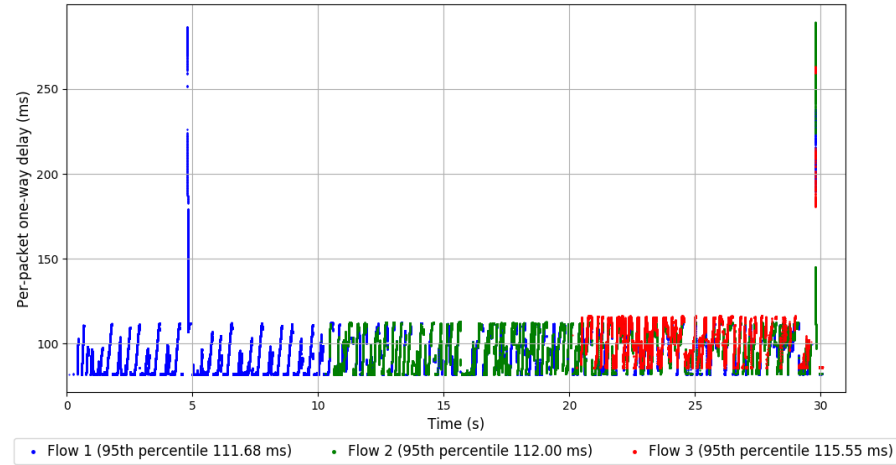
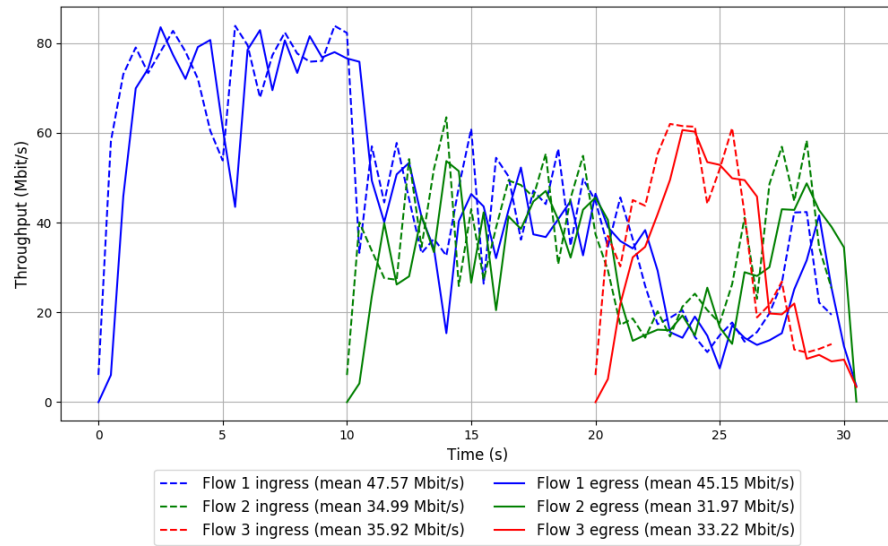
-- Flow 3:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 115.552 ms

Loss rate: 7.74%

# Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 16:13:59

End at: 2018-05-24 16:14:29

Local clock offset: -3.055 ms

Remote clock offset: 4.304 ms

# Below is generated by plot.py at 2018-05-24 17:23:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.19 Mbit/s

95th percentile per-packet one-way delay: 114.039 ms

Loss rate: 6.04%

-- Flow 1:

Average throughput: 40.25 Mbit/s

95th percentile per-packet one-way delay: 113.051 ms

Loss rate: 4.52%

-- Flow 2:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 114.864 ms

Loss rate: 6.79%

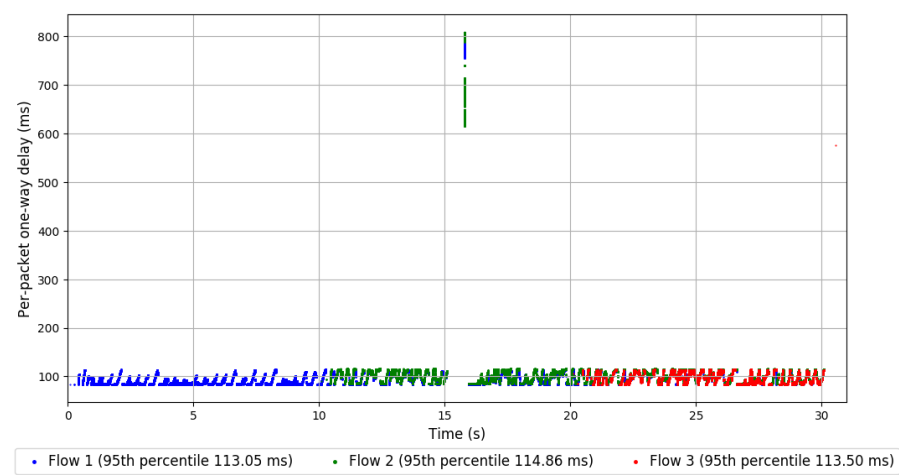
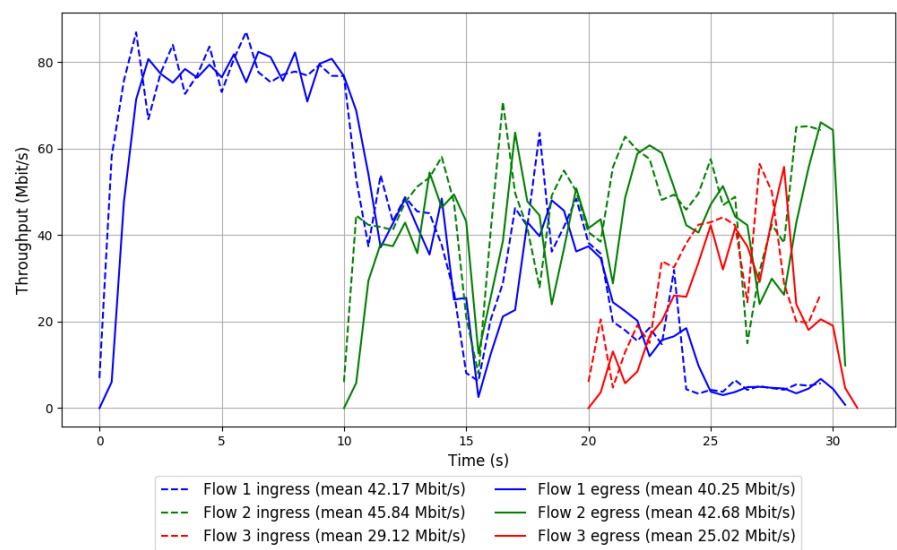
-- Flow 3:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 10.23%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 16:33:40

End at: 2018-05-24 16:34:10

Local clock offset: -3.05 ms

Remote clock offset: 0.646 ms

# Below is generated by plot.py at 2018-05-24 17:24:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 109.269 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 45.75 Mbit/s

95th percentile per-packet one-way delay: 109.145 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 110.702 ms

Loss rate: 8.03%

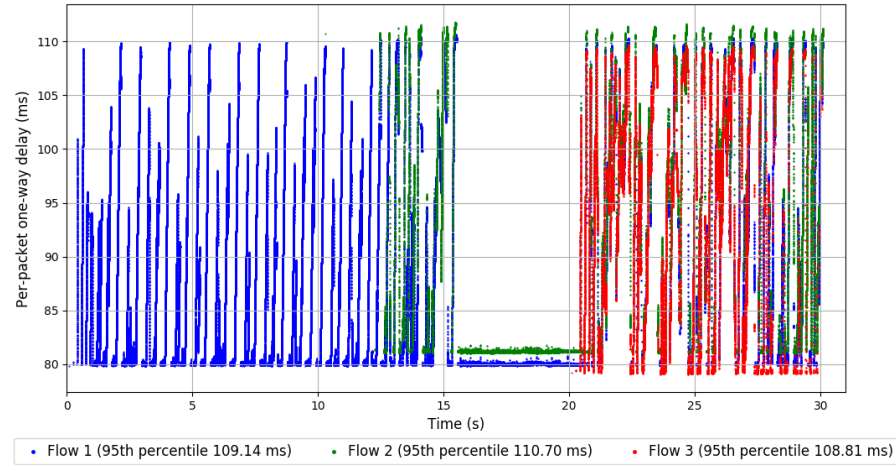
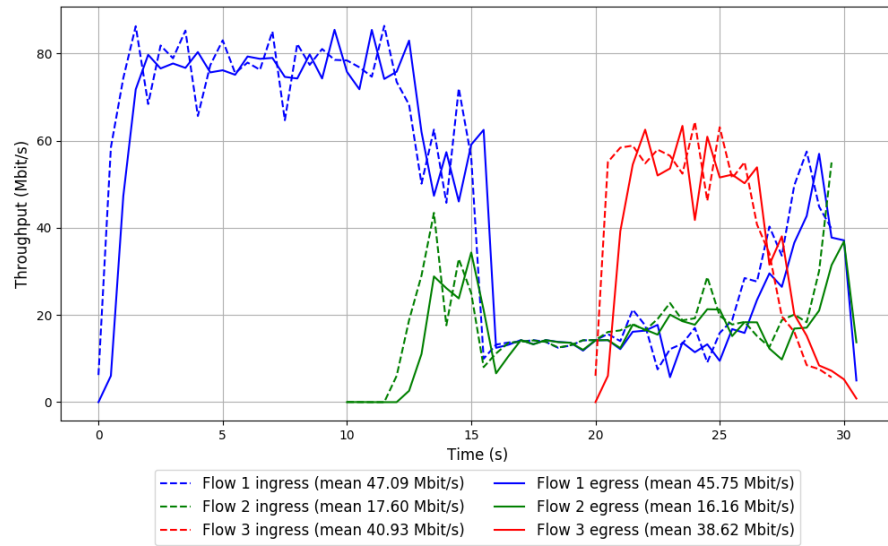
-- Flow 3:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 108.805 ms

Loss rate: 5.42%

# Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 16:53:18

End at: 2018-05-24 16:53:48

Local clock offset: -2.171 ms

Remote clock offset: 3.39 ms

# Below is generated by plot.py at 2018-05-24 17:24:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 110.483 ms

Loss rate: 6.27%

-- Flow 1:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 110.292 ms

Loss rate: 4.43%

-- Flow 2:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 110.659 ms

Loss rate: 7.80%

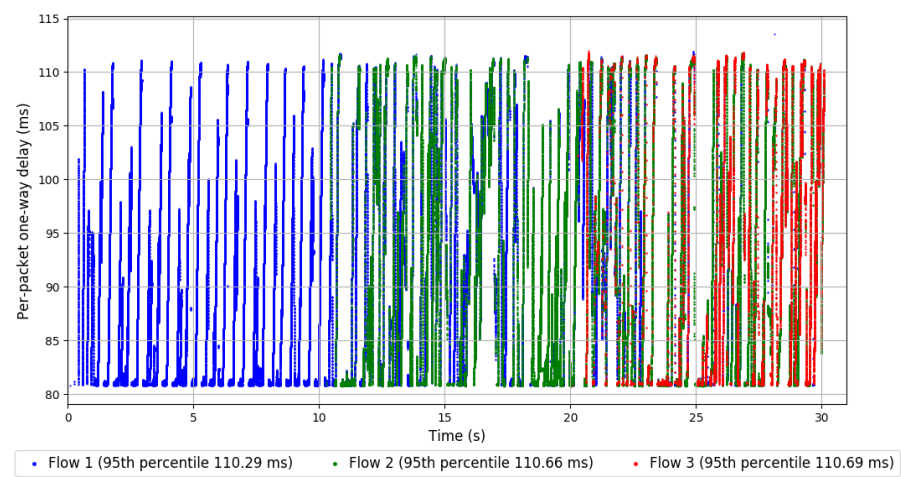
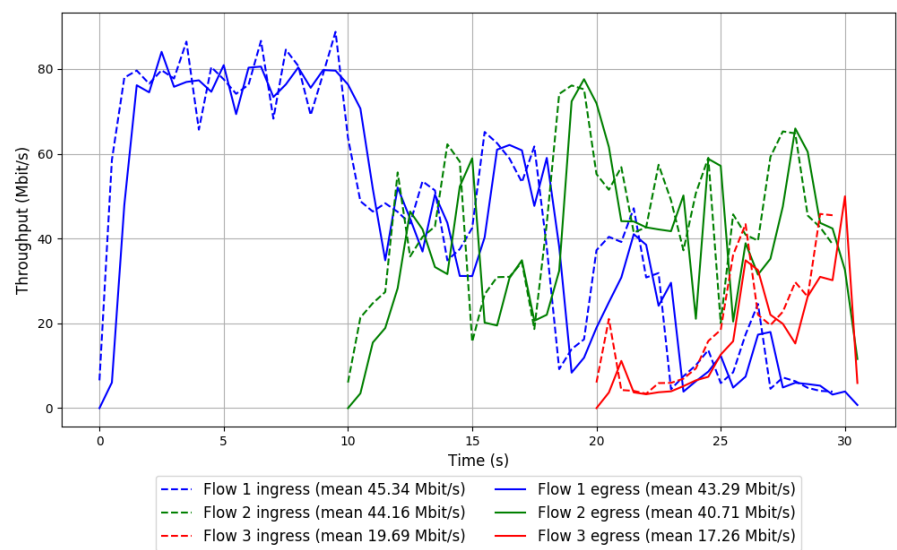
-- Flow 3:

Average throughput: 17.26 Mbit/s

95th percentile per-packet one-way delay: 110.694 ms

Loss rate: 12.07%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 13:58:46

End at: 2018-05-24 13:59:16

Local clock offset: -2.544 ms

Remote clock offset: 3.472 ms

# Below is generated by plot.py at 2018-05-24 17:24:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 86.231 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 85.958 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 88.712 ms

Loss rate: 0.56%

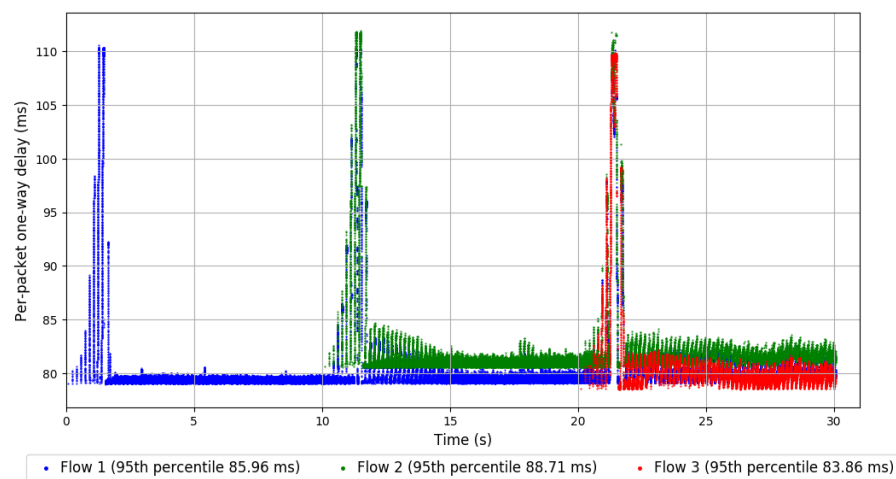
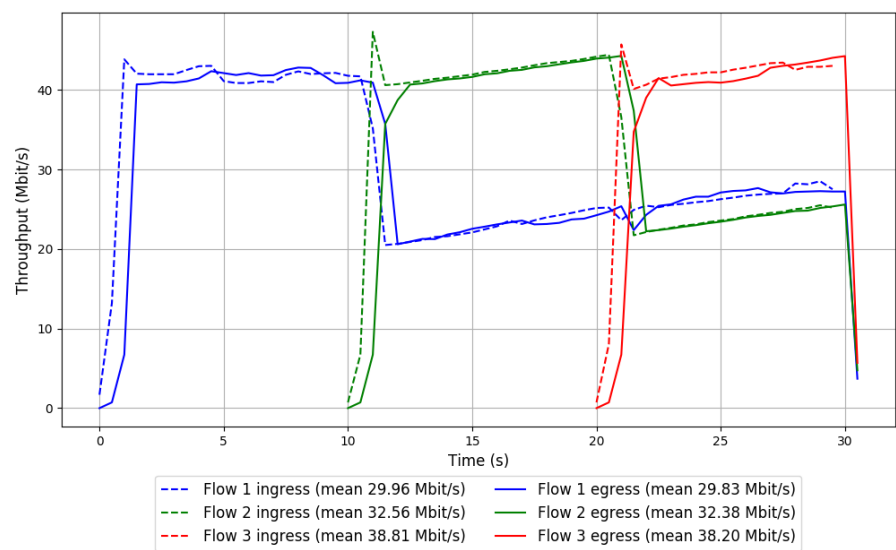
-- Flow 3:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 83.856 ms

Loss rate: 1.56%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 14:18:26

End at: 2018-05-24 14:18:56

Local clock offset: -2.146 ms

Remote clock offset: 7.494 ms

# Below is generated by plot.py at 2018-05-24 17:24:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 95.797 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 93.539 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 100.058 ms

Loss rate: 0.62%

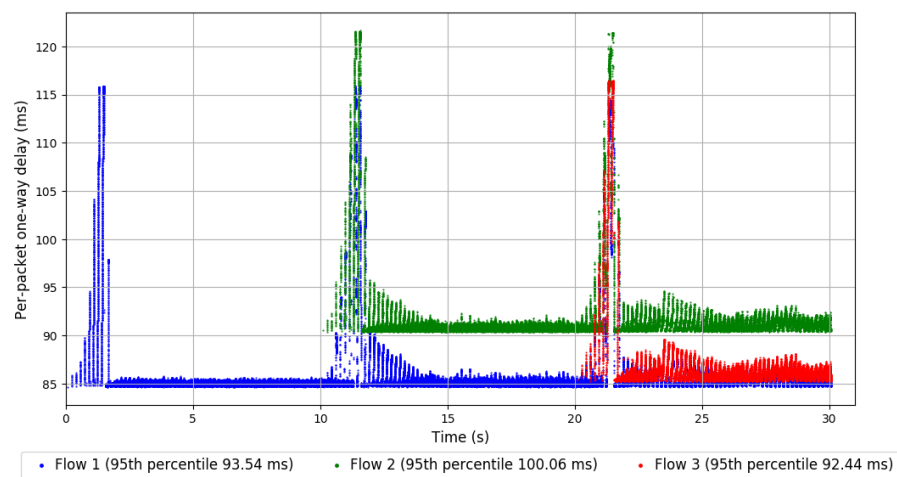
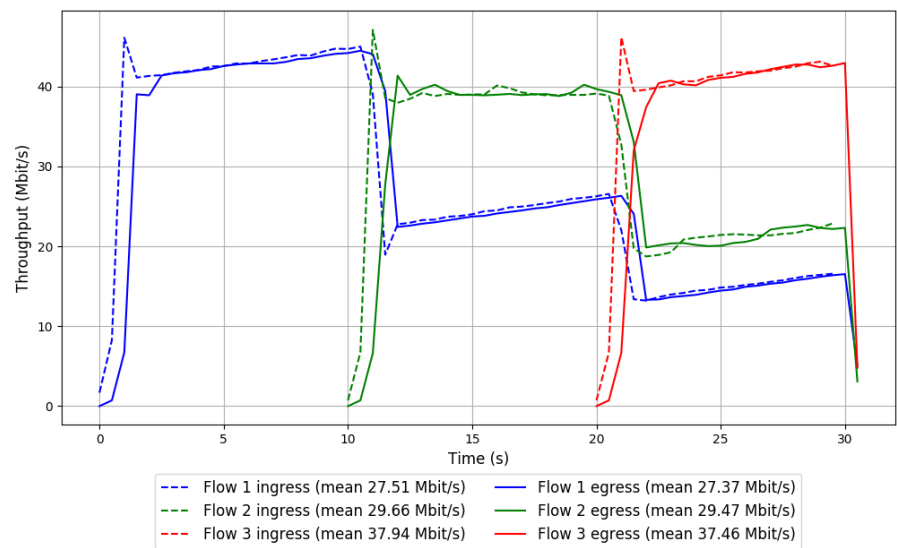
-- Flow 3:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 92.435 ms

Loss rate: 1.28%

Run 2: Report of TCP Vegas — Data Link

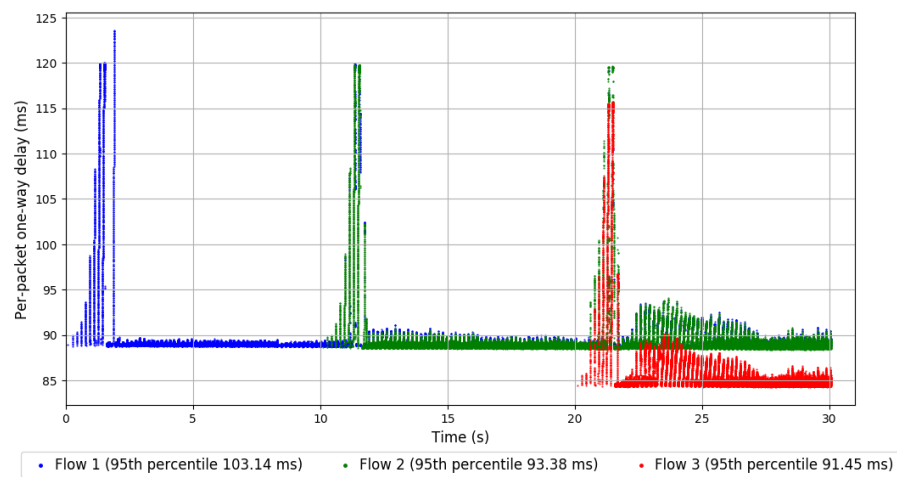
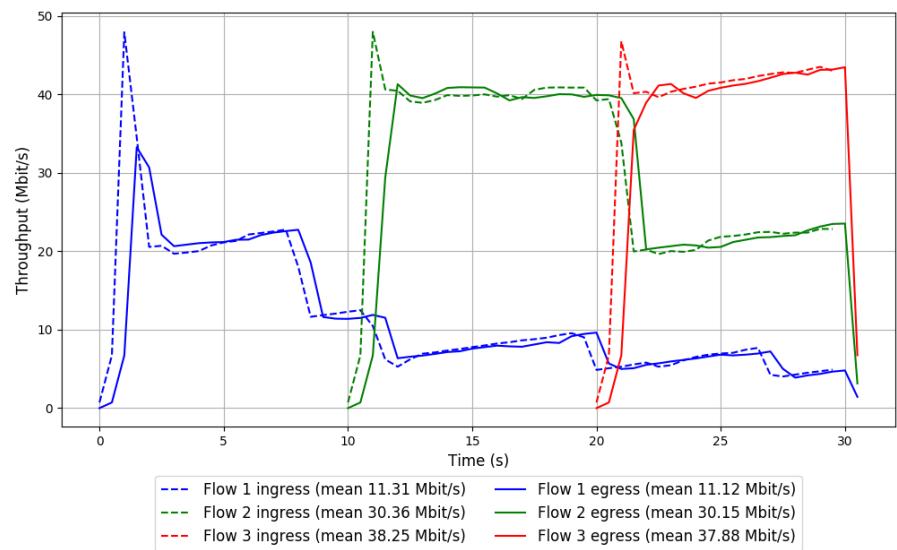


Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 14:38:06  
End at: 2018-05-24 14:38:36  
Local clock offset: -2.729 ms  
Remote clock offset: 19.834 ms

# Below is generated by plot.py at 2018-05-24 17:24:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.80 Mbit/s  
95th percentile per-packet one-way delay: 95.110 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 11.12 Mbit/s  
95th percentile per-packet one-way delay: 103.144 ms  
Loss rate: 1.71%  
-- Flow 2:  
Average throughput: 30.15 Mbit/s  
95th percentile per-packet one-way delay: 93.382 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 37.88 Mbit/s  
95th percentile per-packet one-way delay: 91.447 ms  
Loss rate: 0.94%

Run 3: Report of TCP Vegas — Data Link

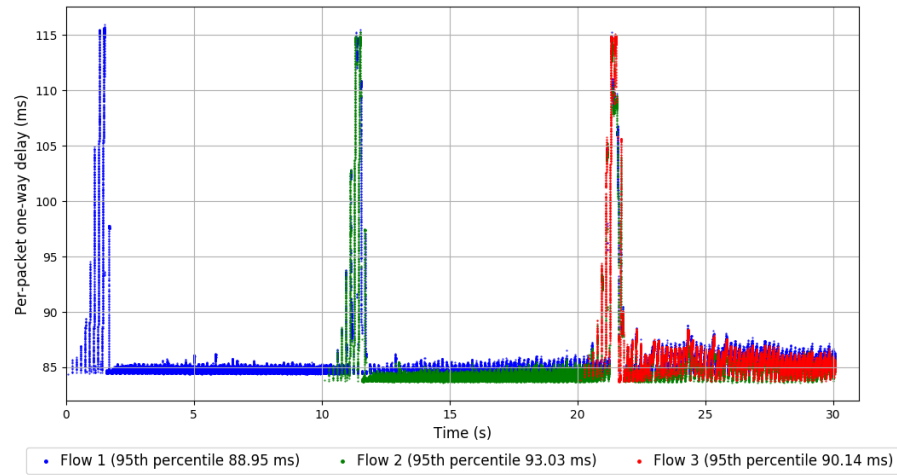
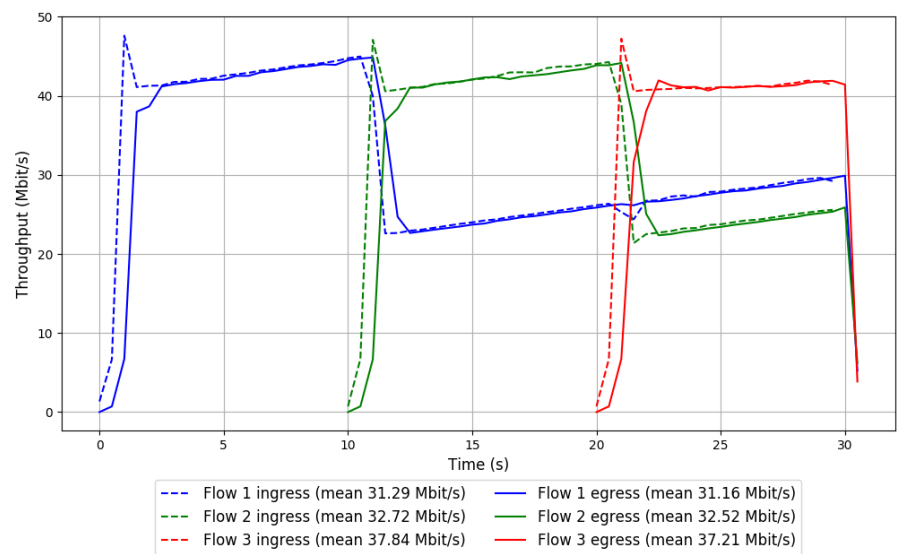


Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 14:57:46  
End at: 2018-05-24 14:58:16  
Local clock offset: -1.074 ms  
Remote clock offset: 26.274 ms

# Below is generated by plot.py at 2018-05-24 17:24:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.20 Mbit/s  
95th percentile per-packet one-way delay: 91.099 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 31.16 Mbit/s  
95th percentile per-packet one-way delay: 88.950 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 32.52 Mbit/s  
95th percentile per-packet one-way delay: 93.032 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 37.21 Mbit/s  
95th percentile per-packet one-way delay: 90.145 ms  
Loss rate: 1.64%

Run 4: Report of TCP Vegas — Data Link

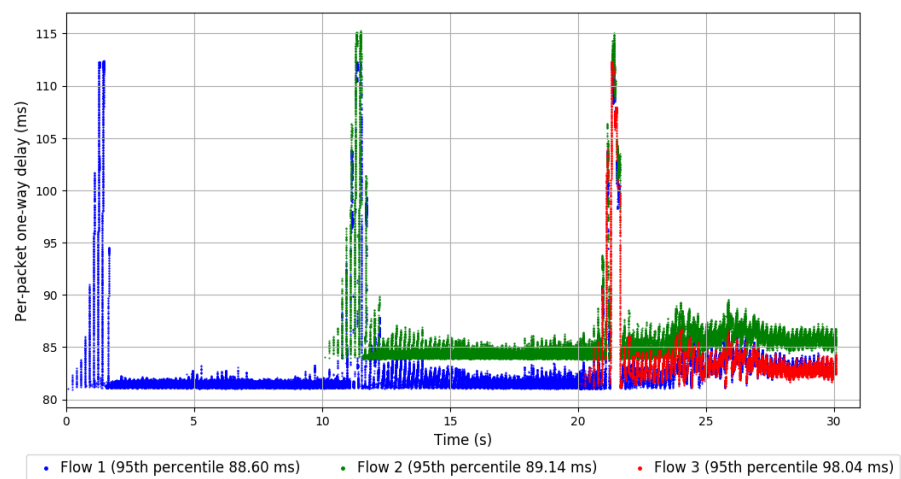
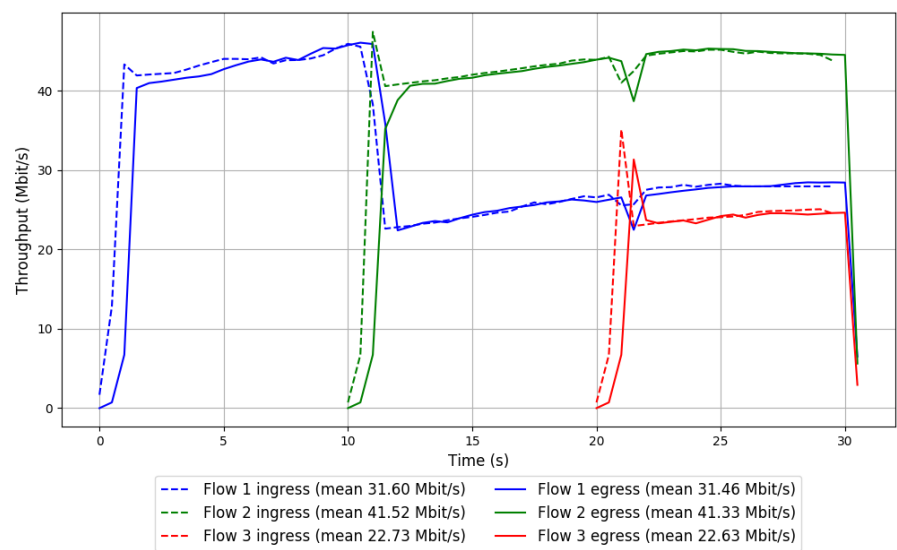


Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 15:17:26  
End at: 2018-05-24 15:17:56  
Local clock offset: -1.183 ms  
Remote clock offset: 28.985 ms

# Below is generated by plot.py at 2018-05-24 17:24:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.49 Mbit/s  
95th percentile per-packet one-way delay: 90.021 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 31.46 Mbit/s  
95th percentile per-packet one-way delay: 88.597 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 41.33 Mbit/s  
95th percentile per-packet one-way delay: 89.142 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 22.63 Mbit/s  
95th percentile per-packet one-way delay: 98.044 ms  
Loss rate: 0.45%

Run 5: Report of TCP Vegas — Data Link

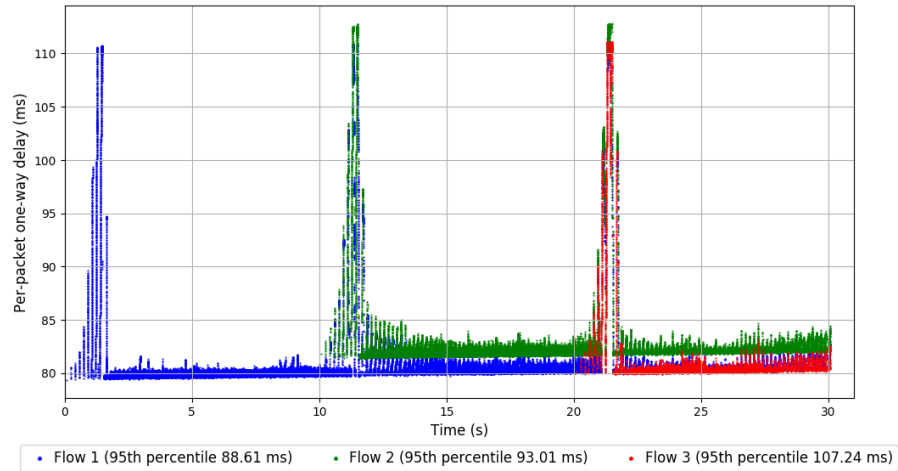
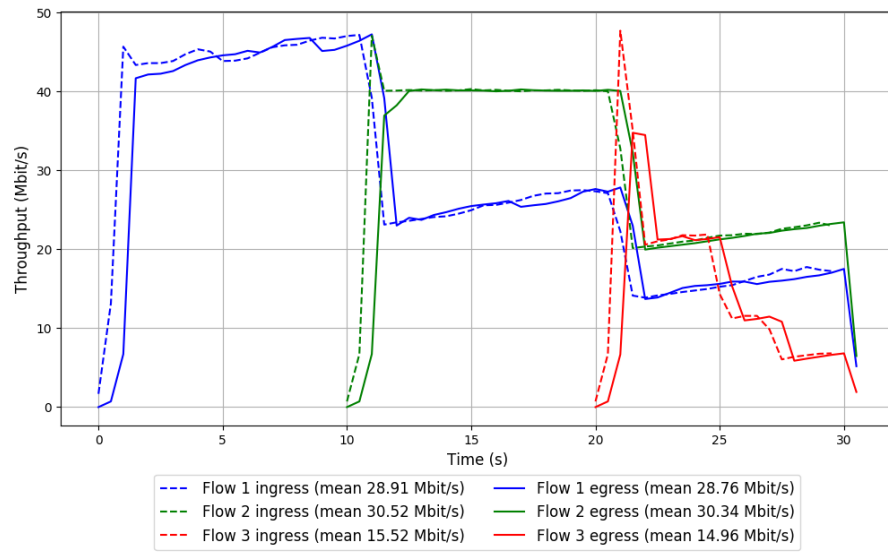


Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 15:37:08  
End at: 2018-05-24 15:37:38  
Local clock offset: -2.256 ms  
Remote clock offset: 16.466 ms

# Below is generated by plot.py at 2018-05-24 17:24:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.94 Mbit/s  
95th percentile per-packet one-way delay: 92.698 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 28.76 Mbit/s  
95th percentile per-packet one-way delay: 88.606 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 30.34 Mbit/s  
95th percentile per-packet one-way delay: 93.006 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 14.96 Mbit/s  
95th percentile per-packet one-way delay: 107.238 ms  
Loss rate: 3.62%

# Run 6: Report of TCP Vegas — Data Link

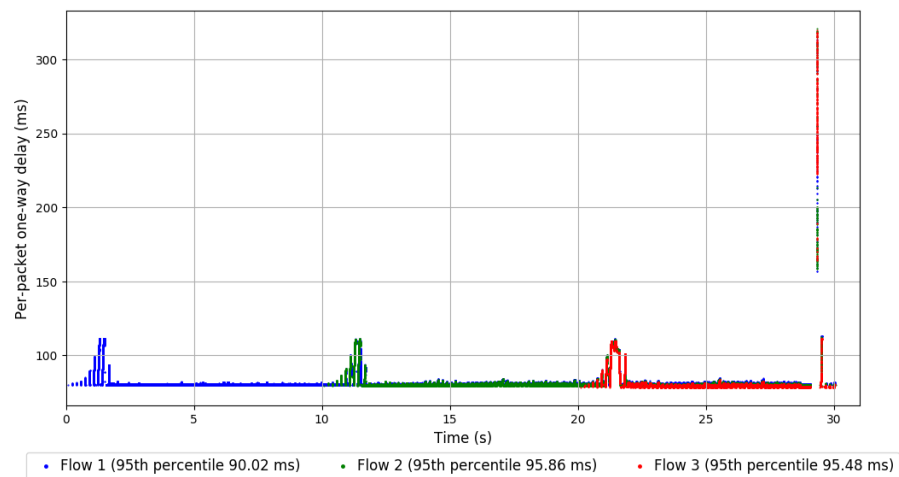
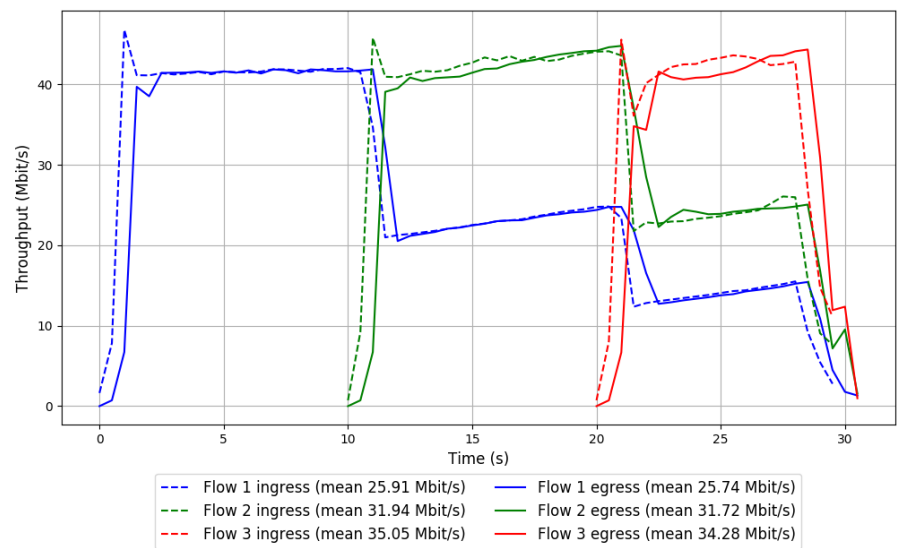


Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 15:56:48  
End at: 2018-05-24 15:57:18  
Local clock offset: -2.454 ms  
Remote clock offset: -0.985 ms

# Below is generated by plot.py at 2018-05-24 17:24:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.21 Mbit/s  
95th percentile per-packet one-way delay: 92.135 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 25.74 Mbit/s  
95th percentile per-packet one-way delay: 90.020 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 95.863 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 34.28 Mbit/s  
95th percentile per-packet one-way delay: 95.480 ms  
Loss rate: 2.18%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 16:16:29

End at: 2018-05-24 16:16:59

Local clock offset: -2.225 ms

Remote clock offset: 3.999 ms

# Below is generated by plot.py at 2018-05-24 17:24:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 93.927 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 95.584 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 20.24 Mbit/s

95th percentile per-packet one-way delay: 93.877 ms

Loss rate: 0.28%

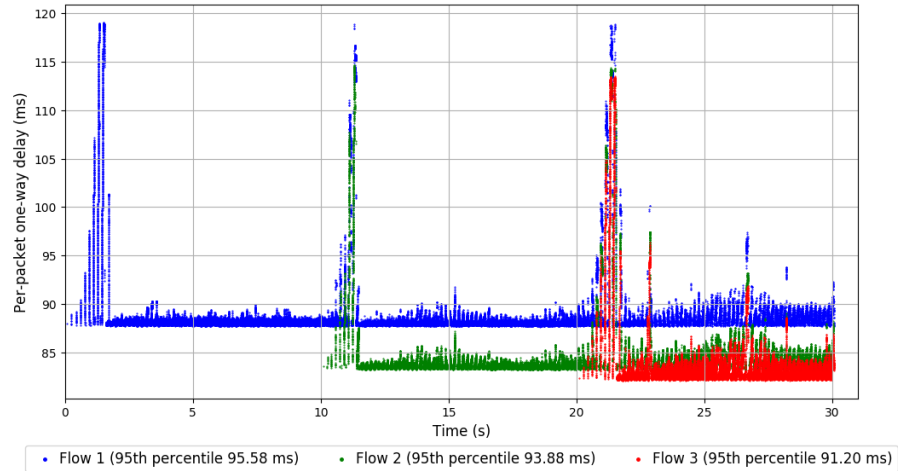
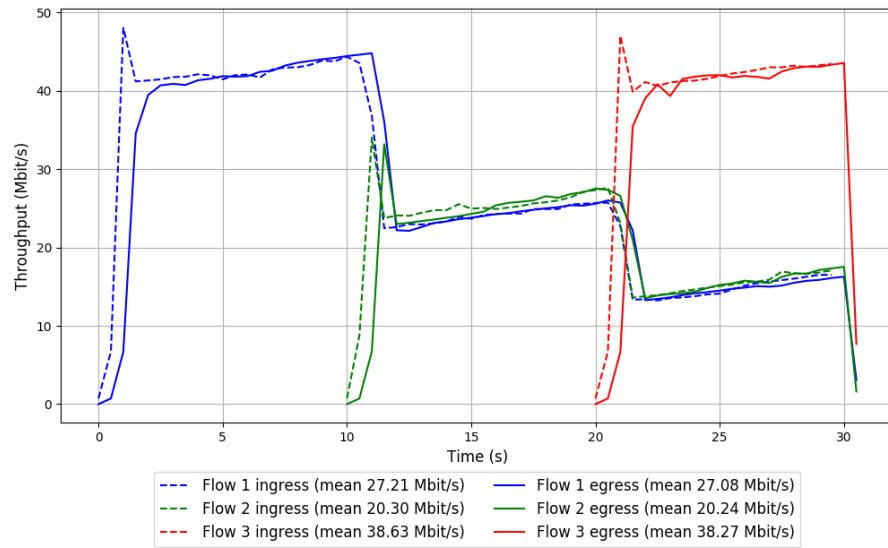
-- Flow 3:

Average throughput: 38.27 Mbit/s

95th percentile per-packet one-way delay: 91.205 ms

Loss rate: 0.92%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 16:36:08

End at: 2018-05-24 16:36:38

Local clock offset: -1.454 ms

Remote clock offset: 5.186 ms

# Below is generated by plot.py at 2018-05-24 17:24:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 93.916 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 90.985 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 28.50 Mbit/s

95th percentile per-packet one-way delay: 93.573 ms

Loss rate: 0.74%

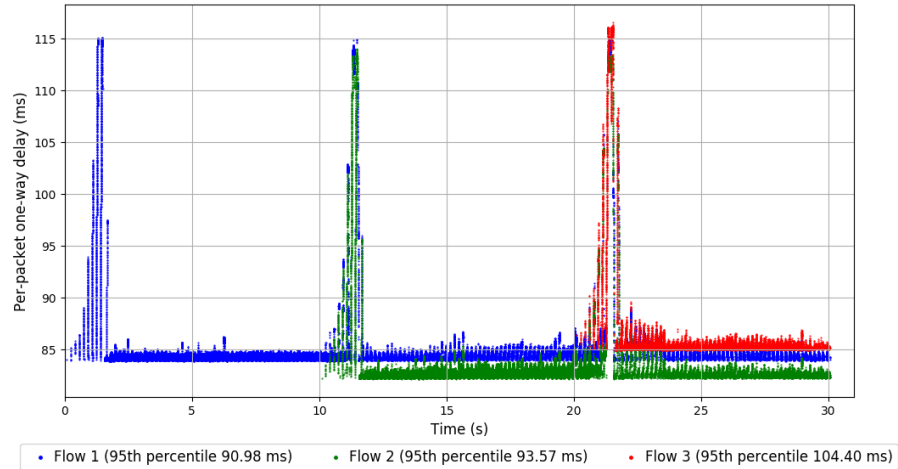
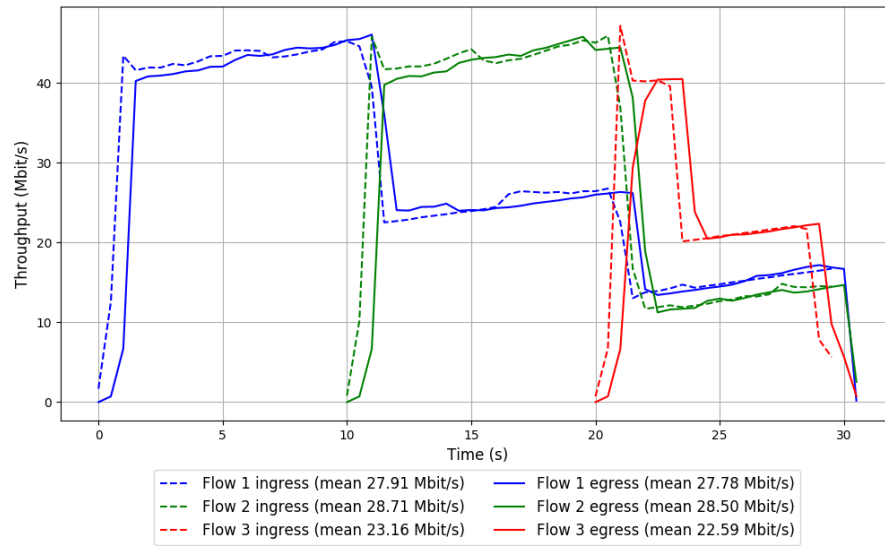
-- Flow 3:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 104.397 ms

Loss rate: 2.44%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 16:55:47

End at: 2018-05-24 16:56:17

Local clock offset: -1.386 ms

Remote clock offset: 7.321 ms

# Below is generated by plot.py at 2018-05-24 17:24:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 95.043 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 100.184 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 92.678 ms

Loss rate: 0.64%

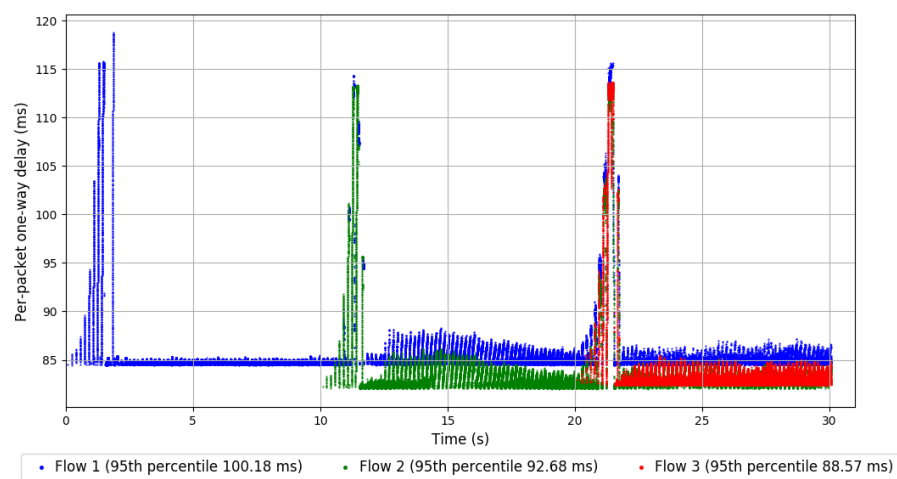
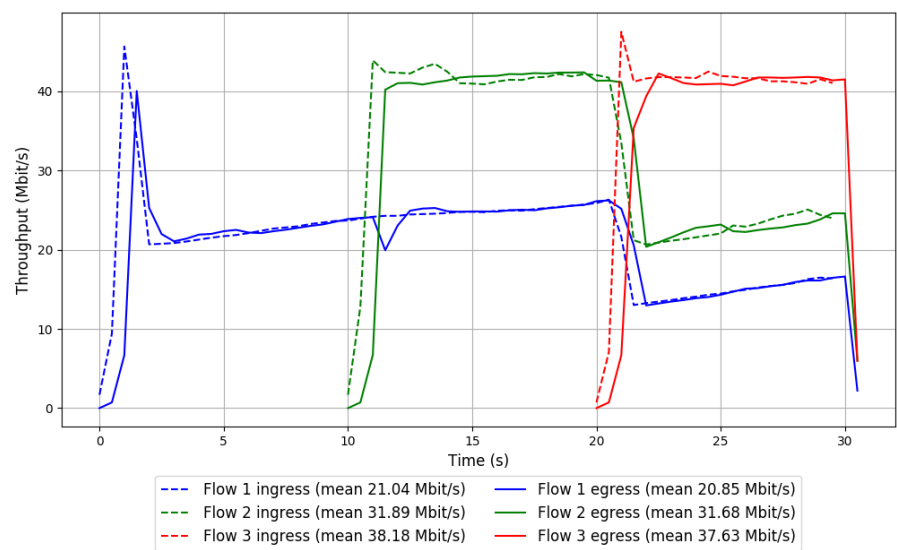
-- Flow 3:

Average throughput: 37.63 Mbit/s

95th percentile per-packet one-way delay: 88.567 ms

Loss rate: 1.42%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-24 13:55:07

End at: 2018-05-24 13:55:37

Local clock offset: -2.587 ms

Remote clock offset: 3.662 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2018-05-24 14:14:47

End at: 2018-05-24 14:15:17

Local clock offset: -2.14 ms

Remote clock offset: 8.42 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2018-05-24 14:34:27

End at: 2018-05-24 14:34:57

Local clock offset: -1.922 ms

Remote clock offset: 18.732 ms

Run 3: Report of Verus — Data Link

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Figure is missing

Run 4: Statistics of Verus

Start at: 2018-05-24 14:54:07

End at: 2018-05-24 14:54:37

Local clock offset: -1.038 ms

Remote clock offset: 25.474 ms

Run 4: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Verus

Start at: 2018-05-24 15:13:47

End at: 2018-05-24 15:14:17

Local clock offset: -1.193 ms

Remote clock offset: 28.513 ms

Run 5: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Verus

Start at: 2018-05-24 15:33:28

End at: 2018-05-24 15:33:58

Local clock offset: -1.414 ms

Remote clock offset: 24.431 ms

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-05-24 15:53:09

End at: 2018-05-24 15:53:39

Local clock offset: -2.464 ms

Remote clock offset: 0.582 ms

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2018-05-24 16:12:49

End at: 2018-05-24 16:13:19

Local clock offset: -2.225 ms

Remote clock offset: 0.181 ms

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

Start at: 2018-05-24 16:32:30

End at: 2018-05-24 16:33:00

Local clock offset: -2.974 ms

Remote clock offset: 5.375 ms

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

Start at: 2018-05-24 16:52:08

End at: 2018-05-24 16:52:38

Local clock offset: -2.934 ms

Remote clock offset: 6.215 ms

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 14:03:32

End at: 2018-05-24 14:04:02

Local clock offset: -2.344 ms

Remote clock offset: 8.737 ms

# Below is generated by plot.py at 2018-05-24 17:25:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 100.946 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 101.266 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 95.185 ms

Loss rate: 0.11%

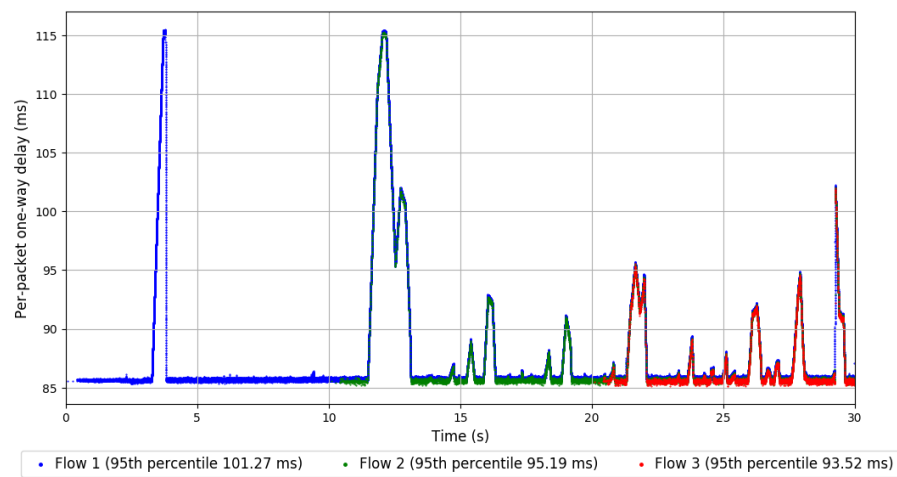
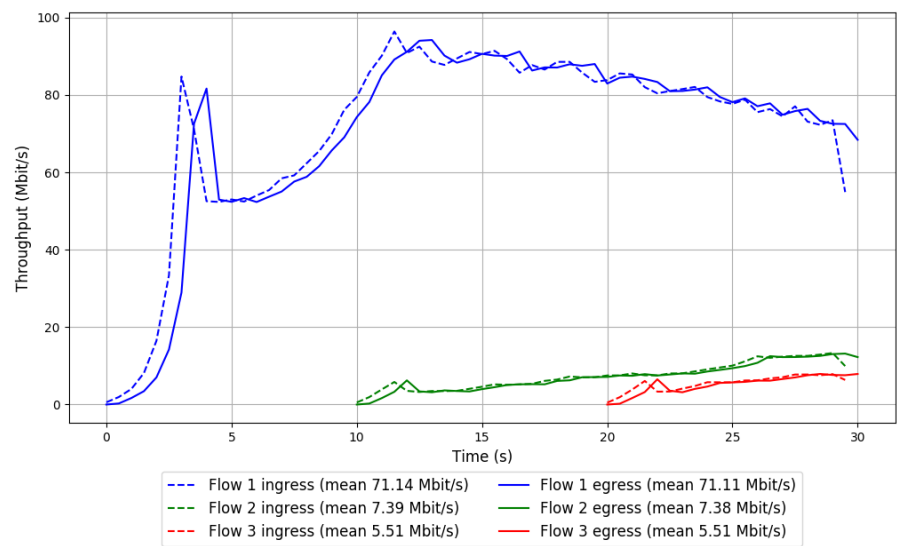
-- Flow 3:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 93.521 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 14:23:12

End at: 2018-05-24 14:23:42

Local clock offset: -2.04 ms

Remote clock offset: 2.836 ms

# Below is generated by plot.py at 2018-05-24 17:25:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.23 Mbit/s

95th percentile per-packet one-way delay: 103.967 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 103.898 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 104.829 ms

Loss rate: 0.13%

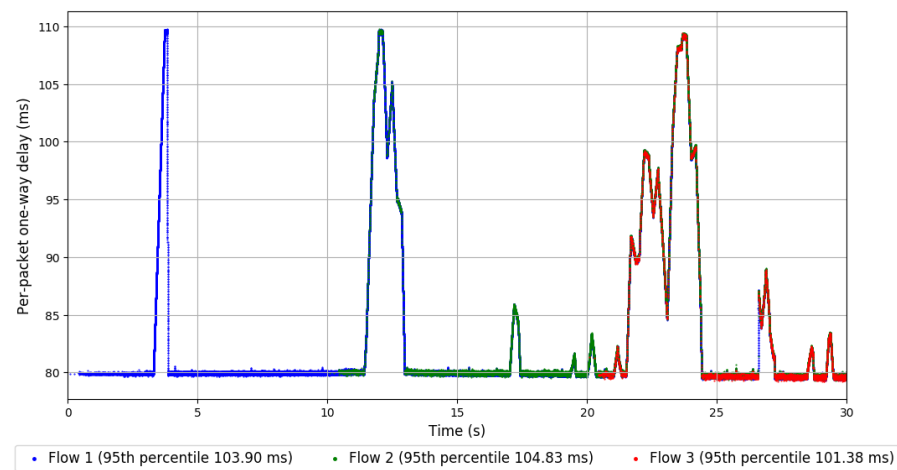
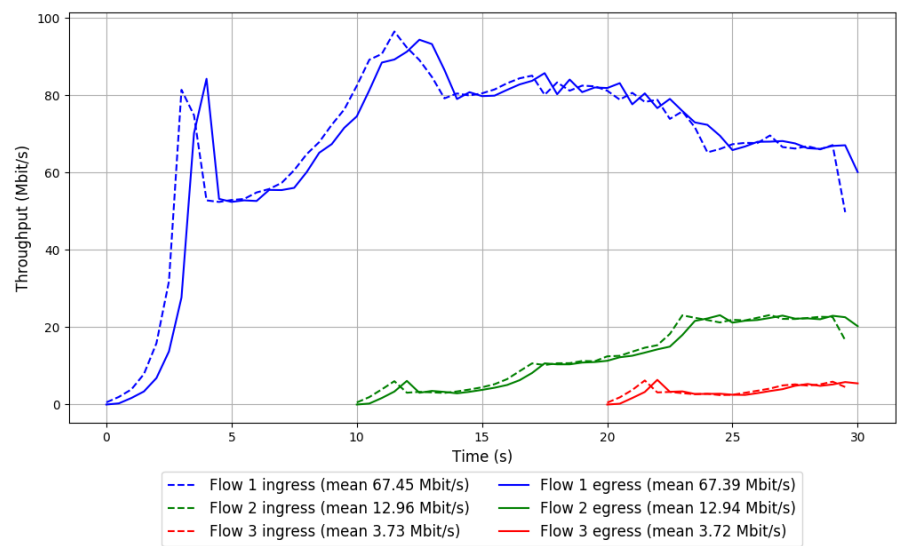
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 101.375 ms

Loss rate: 0.19%

Run 2: Report of PCC-Vivace — Data Link

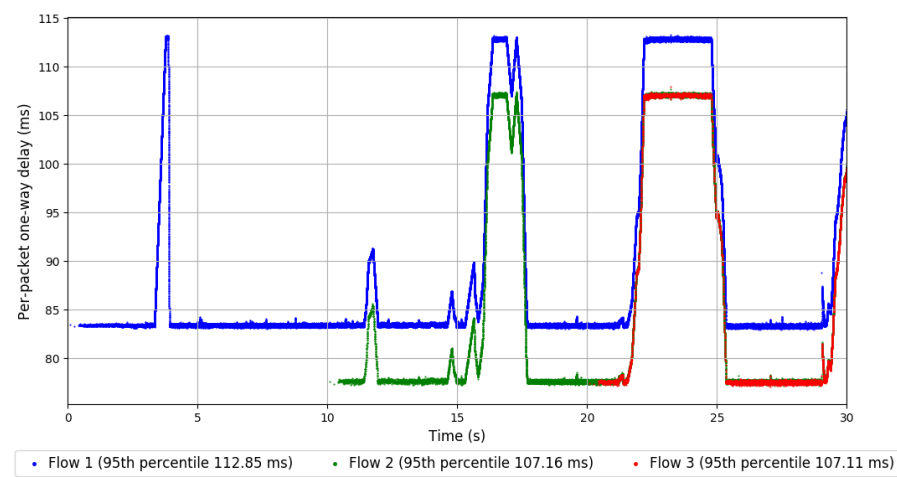
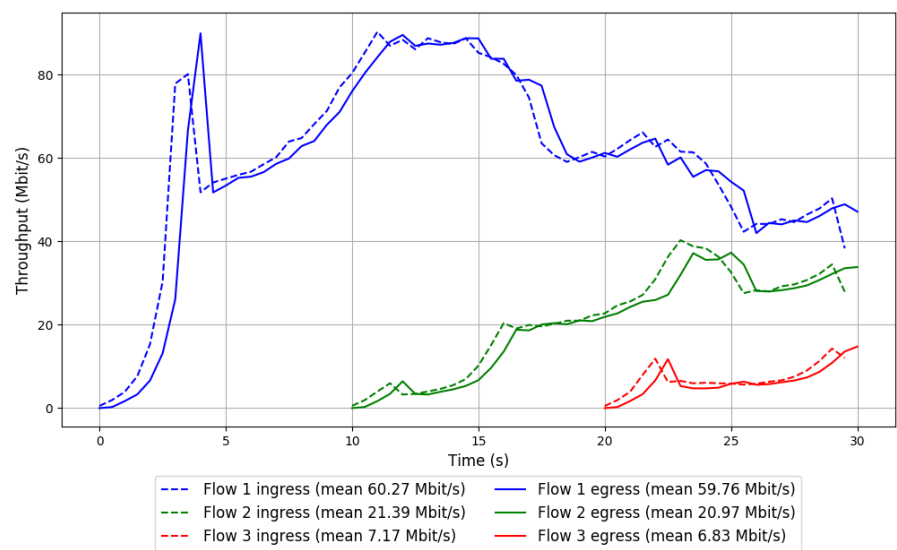


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 14:42:52  
End at: 2018-05-24 14:43:22  
Local clock offset: -1.11 ms  
Remote clock offset: 17.782 ms

# Below is generated by plot.py at 2018-05-24 17:25:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.97 Mbit/s  
95th percentile per-packet one-way delay: 112.816 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 59.76 Mbit/s  
95th percentile per-packet one-way delay: 112.849 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 20.97 Mbit/s  
95th percentile per-packet one-way delay: 107.156 ms  
Loss rate: 1.88%  
-- Flow 3:  
Average throughput: 6.83 Mbit/s  
95th percentile per-packet one-way delay: 107.112 ms  
Loss rate: 4.61%

Run 3: Report of PCC-Vivace — Data Link

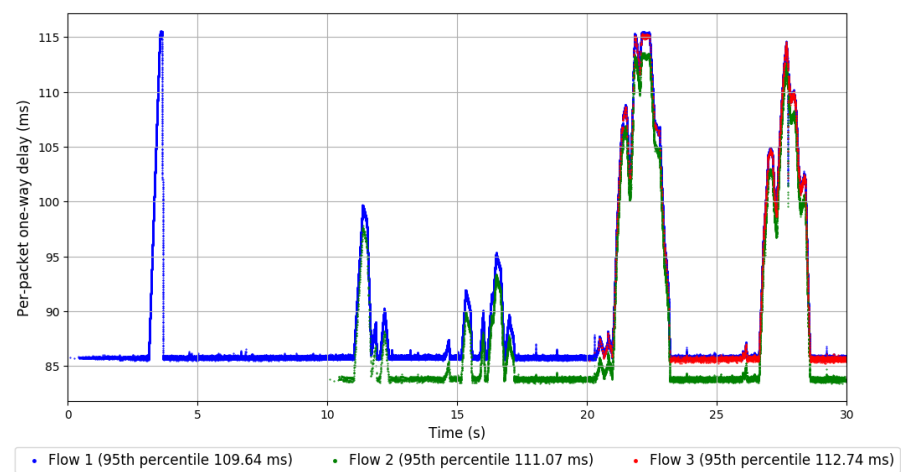
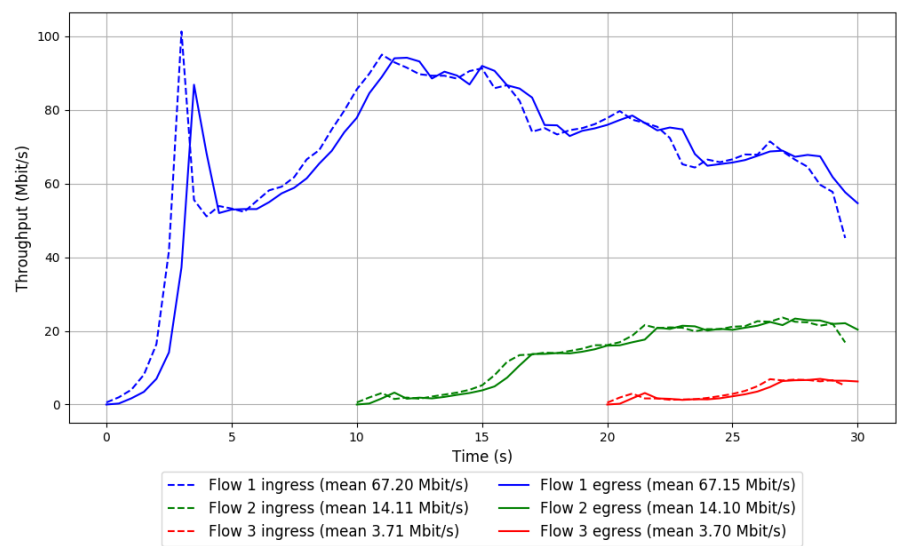


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 15:02:33  
End at: 2018-05-24 15:03:03  
Local clock offset: -1.941 ms  
Remote clock offset: 28.129 ms

# Below is generated by plot.py at 2018-05-24 17:25:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.75 Mbit/s  
95th percentile per-packet one-way delay: 109.888 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 67.15 Mbit/s  
95th percentile per-packet one-way delay: 109.644 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 14.10 Mbit/s  
95th percentile per-packet one-way delay: 111.071 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 112.739 ms  
Loss rate: 0.26%

Run 4: Report of PCC-Vivace — Data Link

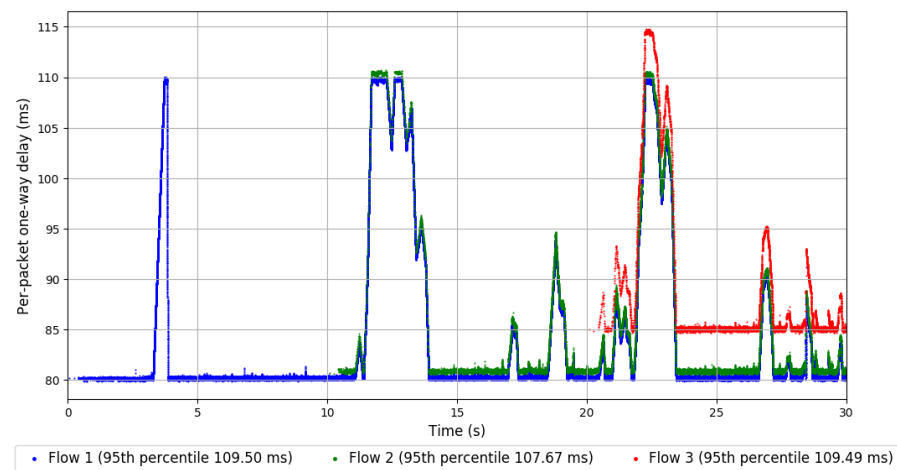
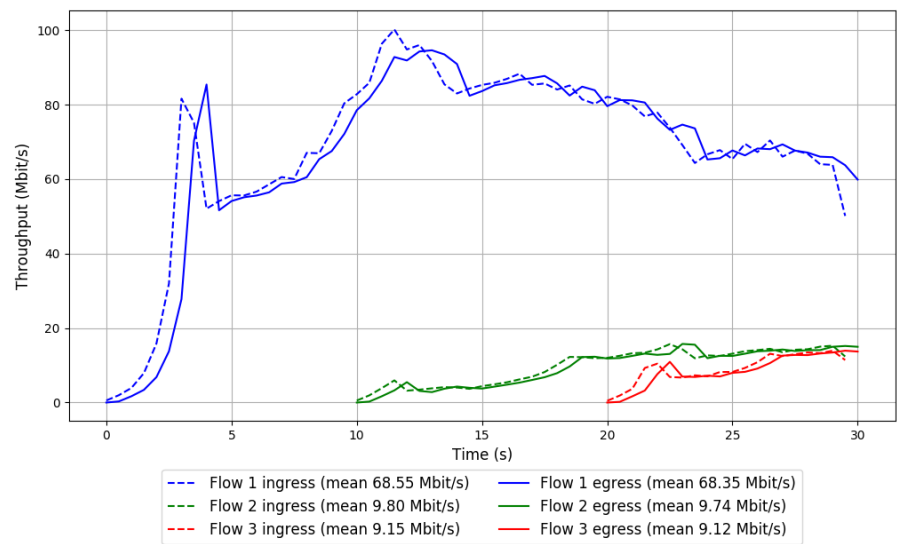


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 15:22:13  
End at: 2018-05-24 15:22:43  
Local clock offset: -1.943 ms  
Remote clock offset: 27.053 ms

# Below is generated by plot.py at 2018-05-24 17:25:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.84 Mbit/s  
95th percentile per-packet one-way delay: 109.479 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 68.35 Mbit/s  
95th percentile per-packet one-way delay: 109.504 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 9.74 Mbit/s  
95th percentile per-packet one-way delay: 107.673 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 9.12 Mbit/s  
95th percentile per-packet one-way delay: 109.491 ms  
Loss rate: 0.45%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 15:41:54

End at: 2018-05-24 15:42:24

Local clock offset: -2.341 ms

Remote clock offset: 9.04 ms

# Below is generated by plot.py at 2018-05-24 17:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 112.559 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 114.203 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 101.083 ms

Loss rate: 0.48%

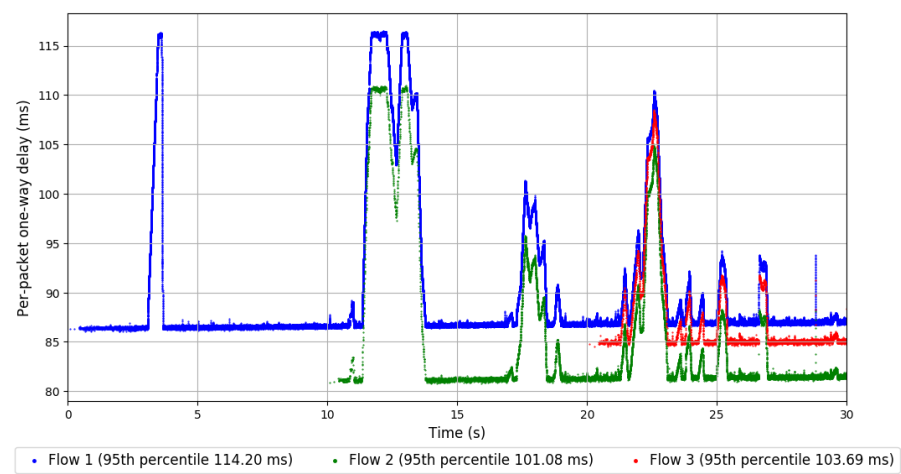
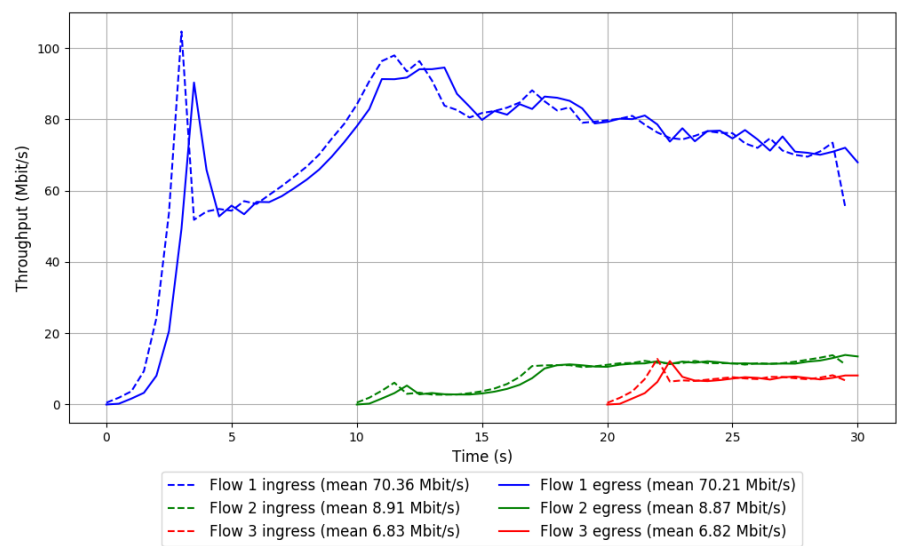
-- Flow 3:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 103.685 ms

Loss rate: 0.07%

Run 6: Report of PCC-Vivace — Data Link

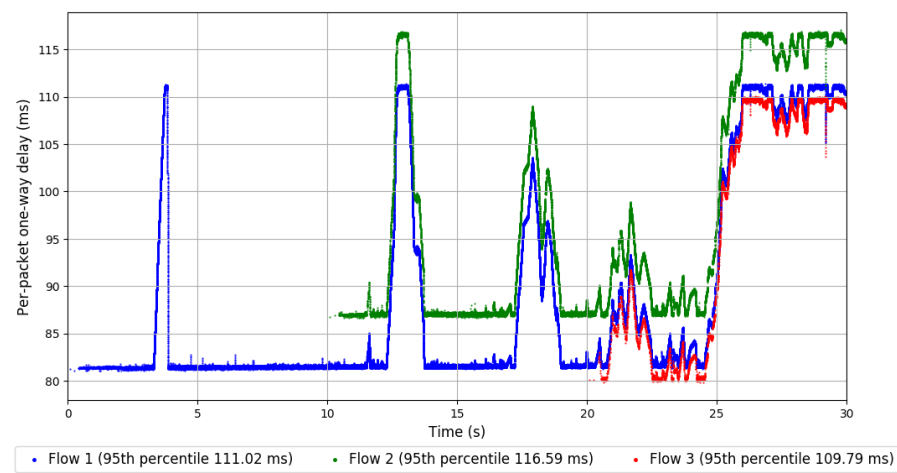
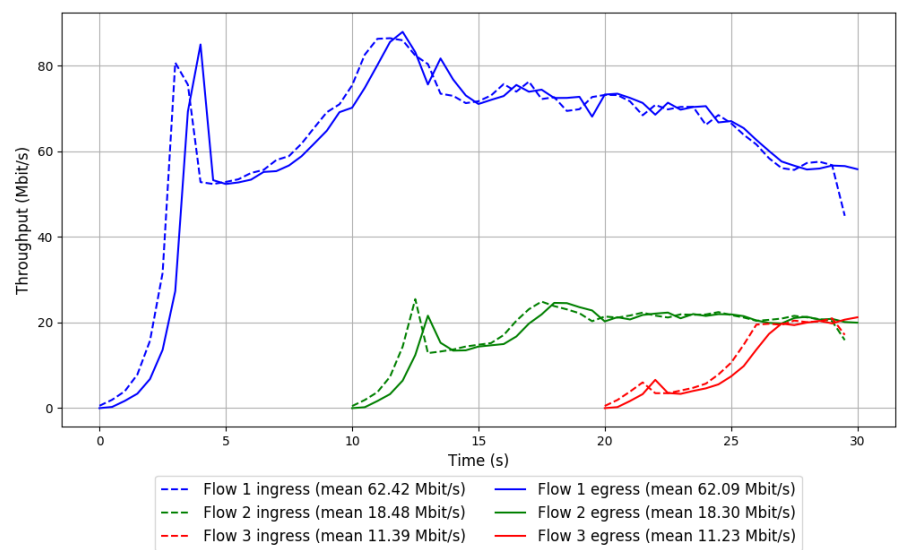


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 16:01:34  
End at: 2018-05-24 16:02:04  
Local clock offset: -2.34 ms  
Remote clock offset: -2.004 ms

# Below is generated by plot.py at 2018-05-24 17:25:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.98 Mbit/s  
95th percentile per-packet one-way delay: 111.172 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 62.09 Mbit/s  
95th percentile per-packet one-way delay: 111.018 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 18.30 Mbit/s  
95th percentile per-packet one-way delay: 116.586 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 11.23 Mbit/s  
95th percentile per-packet one-way delay: 109.792 ms  
Loss rate: 1.10%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 16:21:15

End at: 2018-05-24 16:21:45

Local clock offset: -2.205 ms

Remote clock offset: 1.543 ms

# Below is generated by plot.py at 2018-05-24 17:25:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 109.448 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 109.393 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 110.415 ms

Loss rate: 1.25%

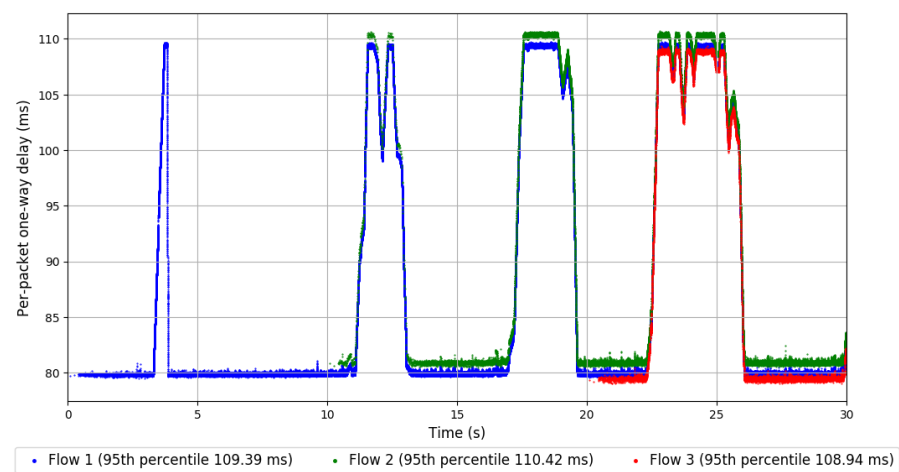
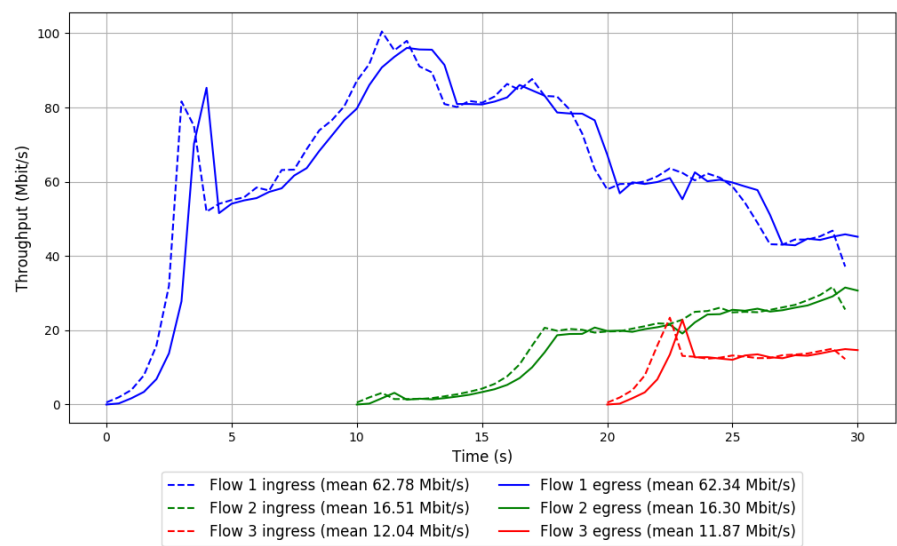
-- Flow 3:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 108.938 ms

Loss rate: 1.43%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 16:40:54

End at: 2018-05-24 16:41:24

Local clock offset: -1.436 ms

Remote clock offset: 5.151 ms

# Below is generated by plot.py at 2018-05-24 17:26:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.84 Mbit/s

95th percentile per-packet one-way delay: 105.890 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 106.560 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 103.456 ms

Loss rate: 0.00%

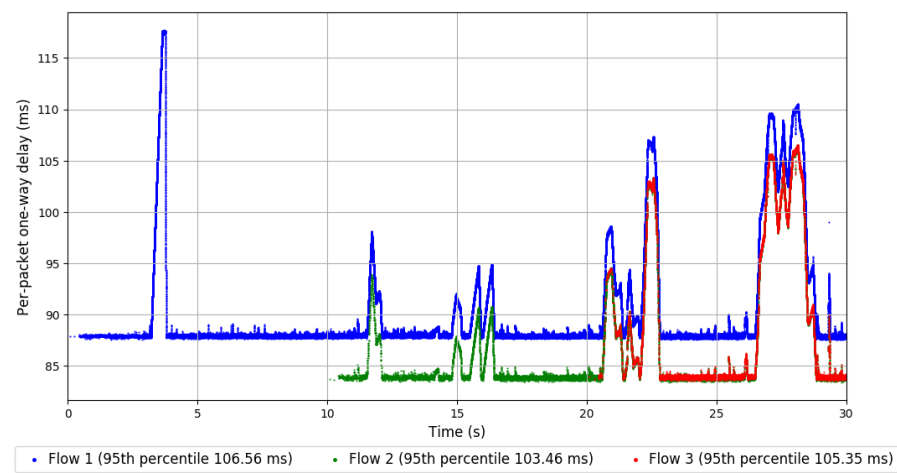
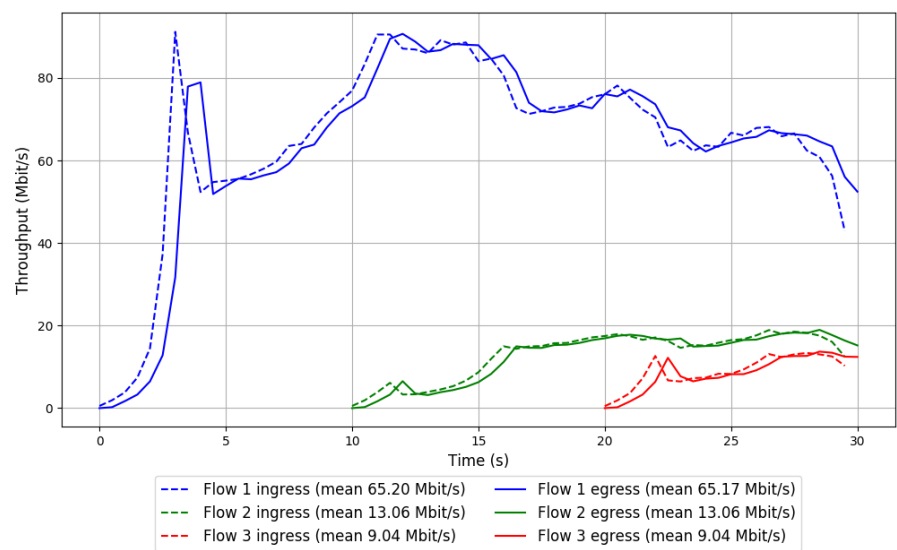
-- Flow 3:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 105.349 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 17:00:33

End at: 2018-05-24 17:01:03

Local clock offset: -2.117 ms

Remote clock offset: 7.389 ms

# Below is generated by plot.py at 2018-05-24 17:26:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 114.277 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 114.301 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 112.593 ms

Loss rate: 0.79%

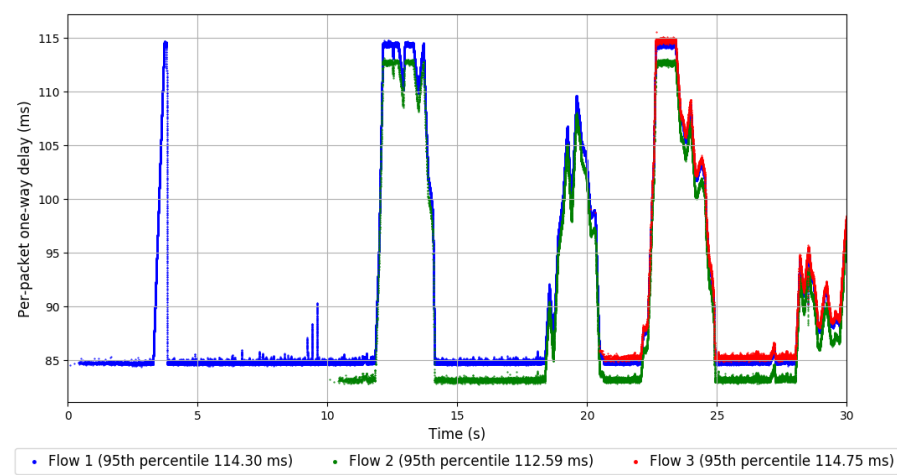
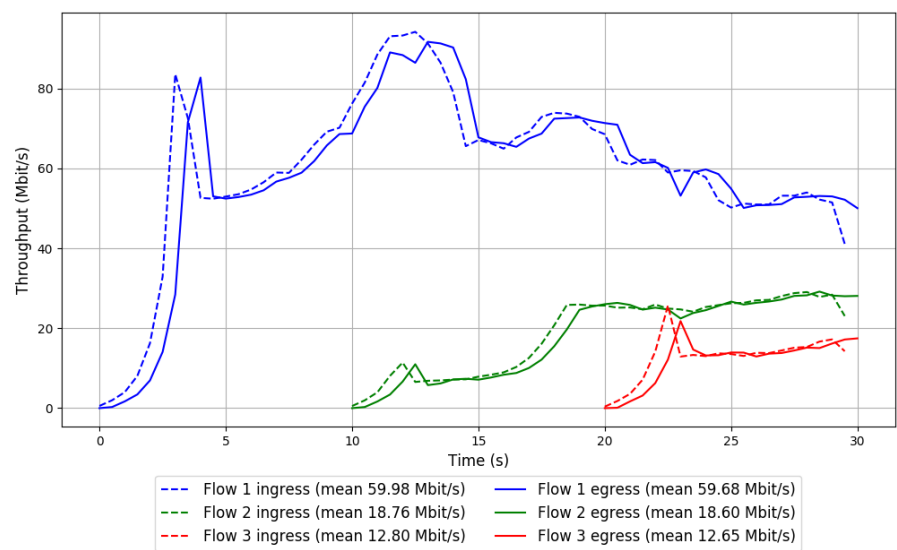
-- Flow 3:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 114.745 ms

Loss rate: 1.20%

Run 10: Report of PCC-Vivace — Data Link

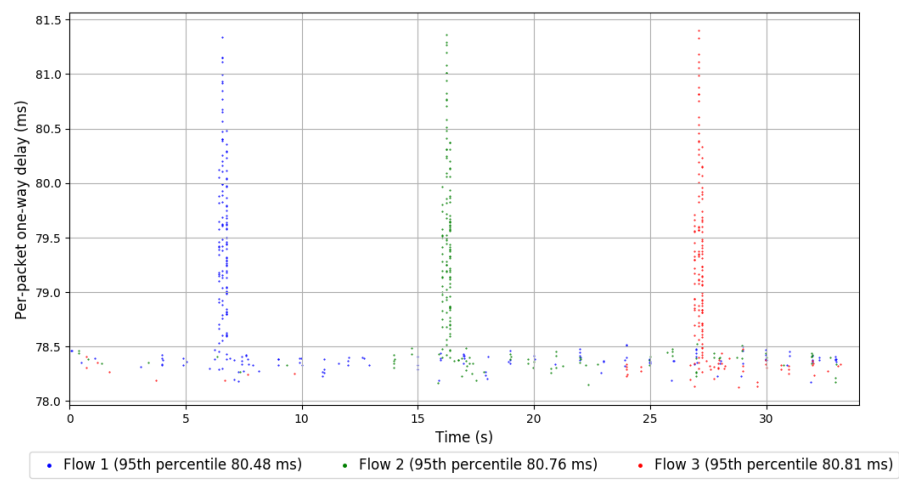
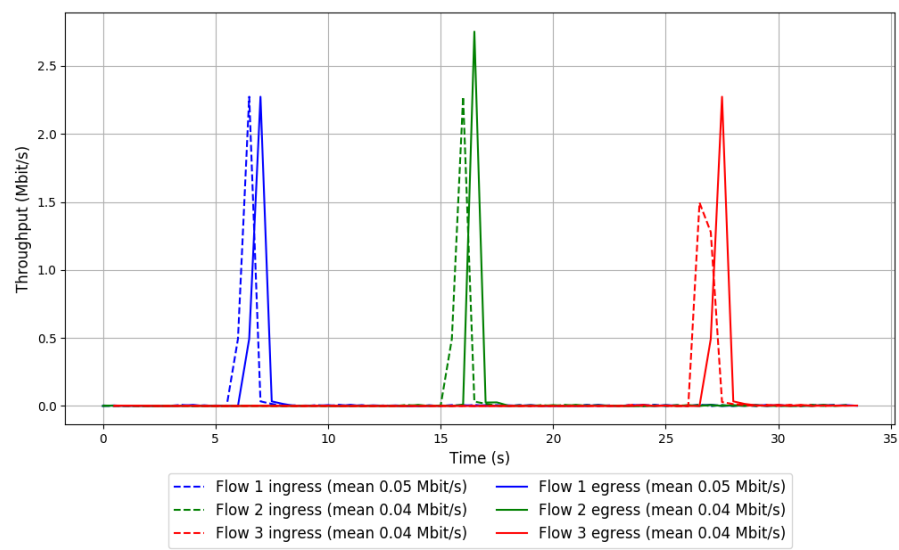


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-24 14:02:21
End at: 2018-05-24 14:02:51
Local clock offset: -1.597 ms
Remote clock offset: 3.923 ms

# Below is generated by plot.py at 2018-05-24 17:26:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 80.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.478 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 80.758 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 80.815 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-24 14:22:02

End at: 2018-05-24 14:22:32

Local clock offset: -2.828 ms

Remote clock offset: 8.223 ms

# Below is generated by plot.py at 2018-05-24 17:26:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 88.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 88.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 88.323 ms

Loss rate: 0.00%

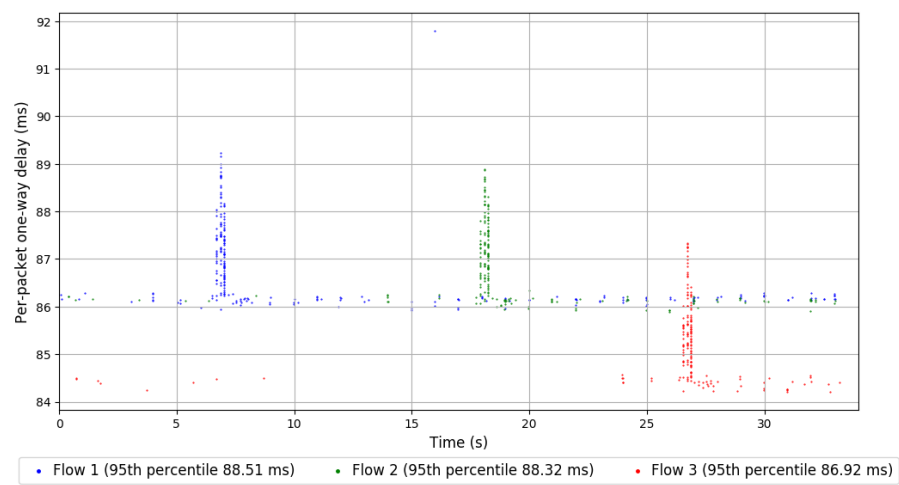
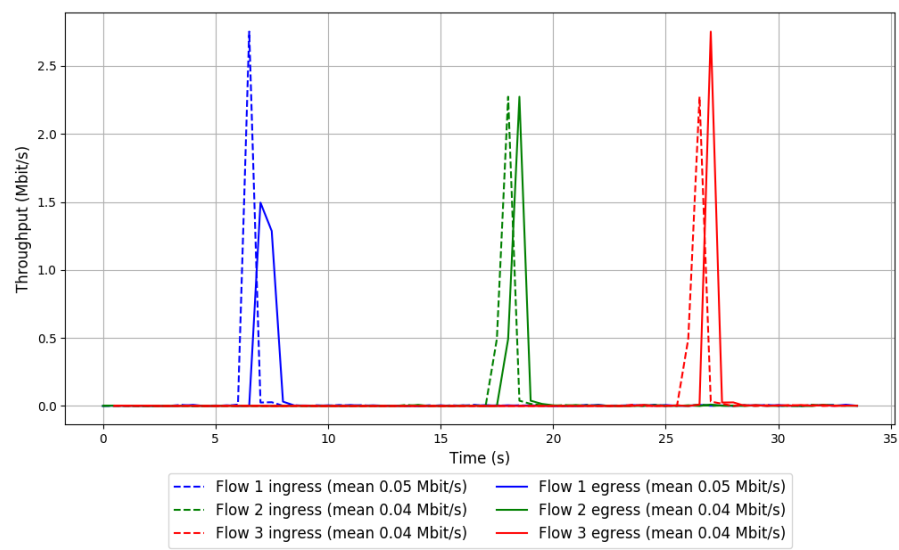
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 86.917 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

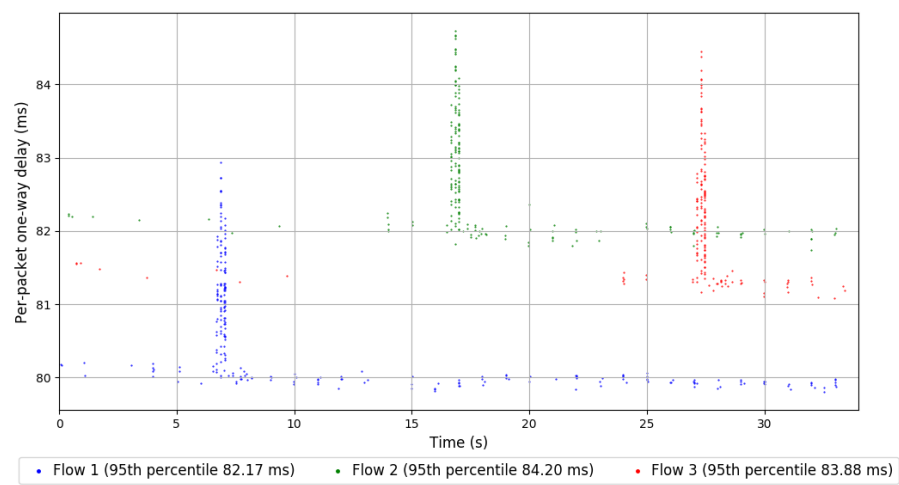
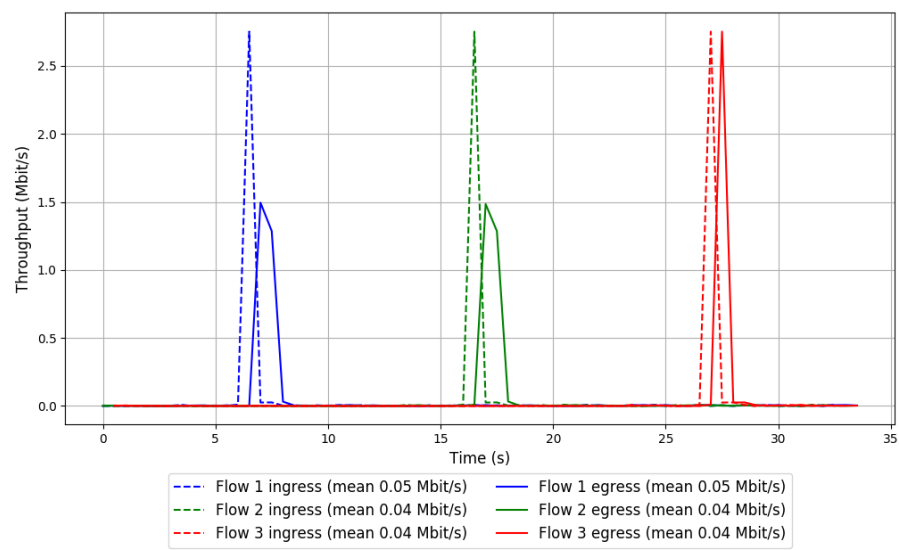


Run 3: Statistics of WebRTC media

Start at: 2018-05-24 14:41:41  
End at: 2018-05-24 14:42:11  
Local clock offset: -2.639 ms  
Remote clock offset: 18.201 ms

# Below is generated by plot.py at 2018-05-24 17:26:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 83.838 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 82.173 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 84.203 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 83.882 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

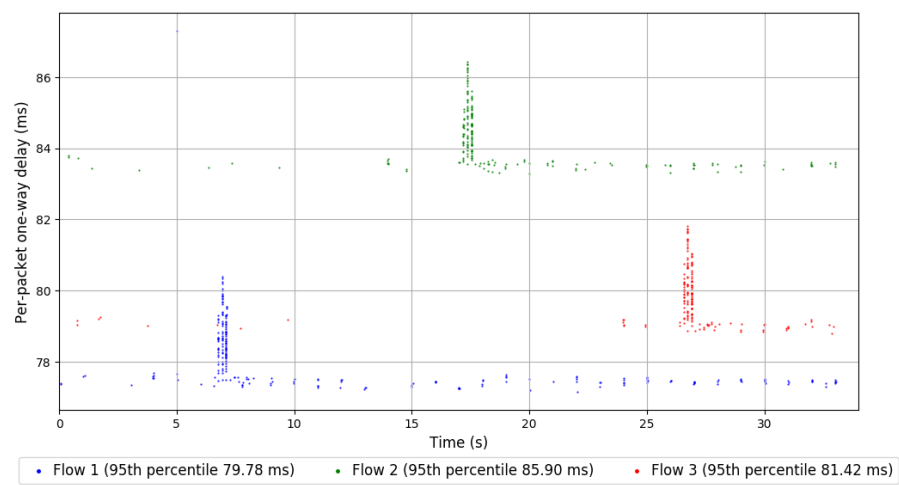
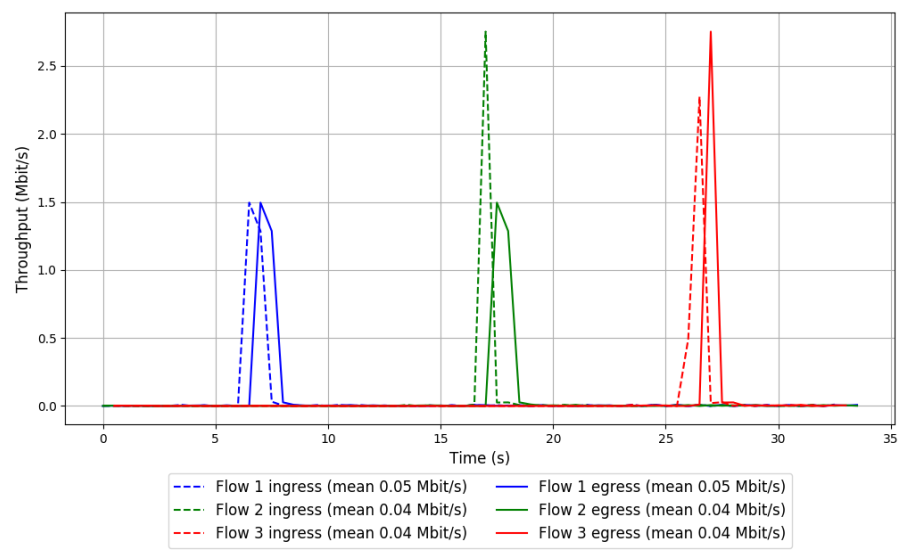


Run 4: Statistics of WebRTC media

Start at: 2018-05-24 15:01:23  
End at: 2018-05-24 15:01:53  
Local clock offset: -1.161 ms  
Remote clock offset: 22.416 ms

# Below is generated by plot.py at 2018-05-24 17:26:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 85.102 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 79.778 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 85.899 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 81.422 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

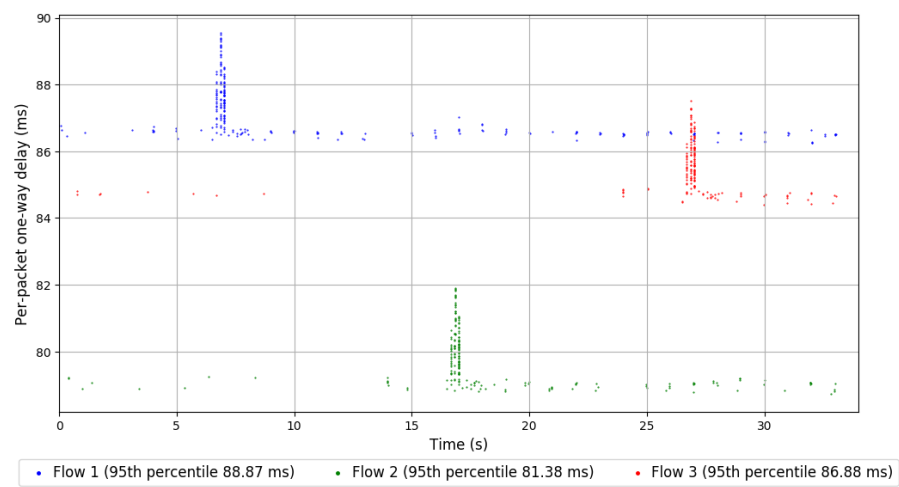
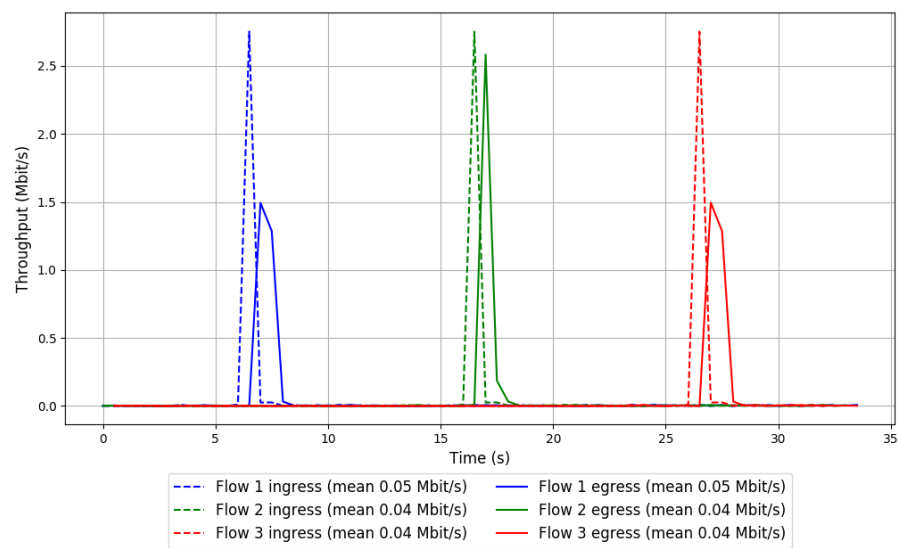


Run 5: Statistics of WebRTC media

Start at: 2018-05-24 15:21:02  
End at: 2018-05-24 15:21:33  
Local clock offset: -1.942 ms  
Remote clock offset: 26.737 ms

# Below is generated by plot.py at 2018-05-24 17:26:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 88.089 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 88.874 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 81.383 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 86.875 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

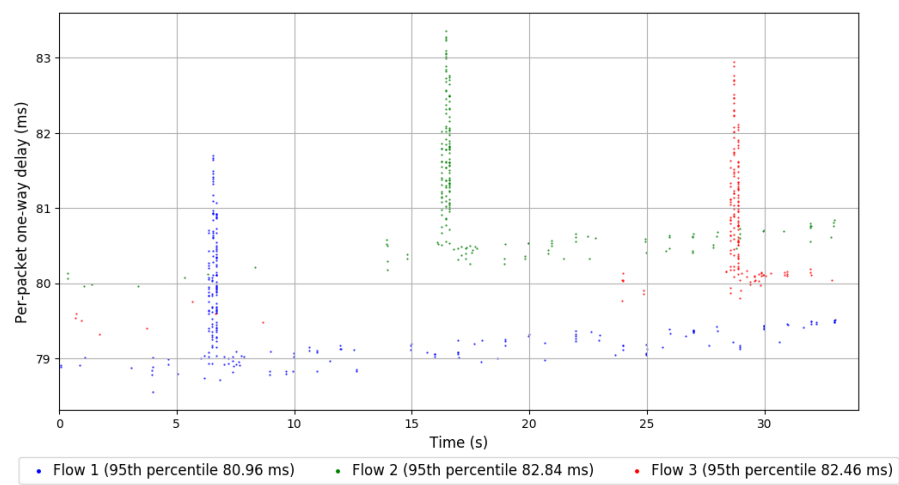
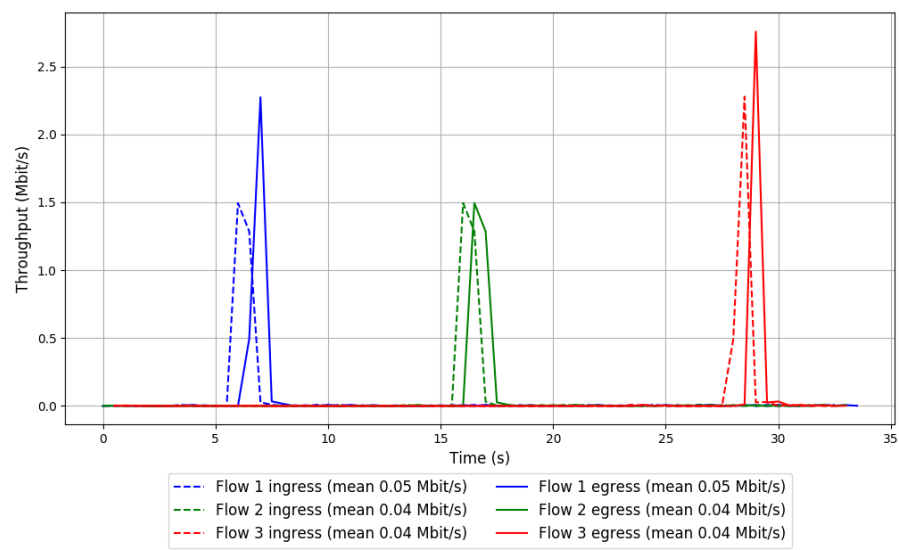


Run 6: Statistics of WebRTC media

Start at: 2018-05-24 15:40:43  
End at: 2018-05-24 15:41:13  
Local clock offset: -2.389 ms  
Remote clock offset: 10.281 ms

# Below is generated by plot.py at 2018-05-24 17:26:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 82.460 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 80.963 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 82.841 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 82.460 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-24 16:00:24

End at: 2018-05-24 16:00:54

Local clock offset: -2.439 ms

Remote clock offset: -2.37 ms

# Below is generated by plot.py at 2018-05-24 17:26:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 82.401 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 82.557 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 82.491 ms

Loss rate: 0.00%

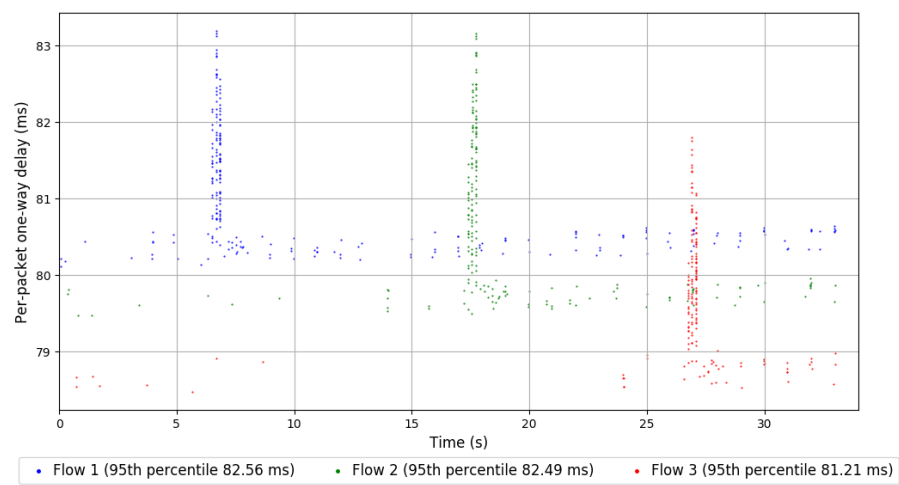
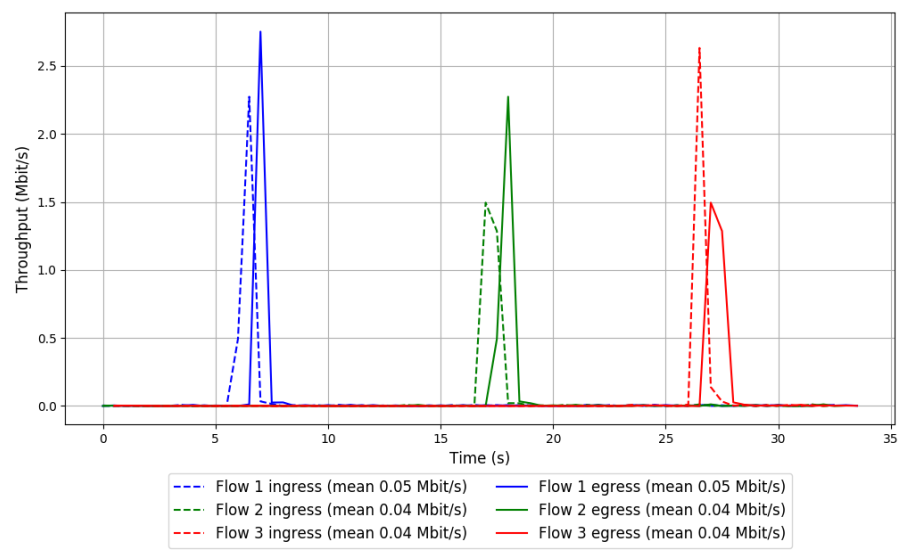
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 81.207 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-24 16:20:05

End at: 2018-05-24 16:20:35

Local clock offset: -3.053 ms

Remote clock offset: 5.316 ms

# Below is generated by plot.py at 2018-05-24 17:26:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 92.886 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 93.688 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 85.941 ms

Loss rate: 0.00%

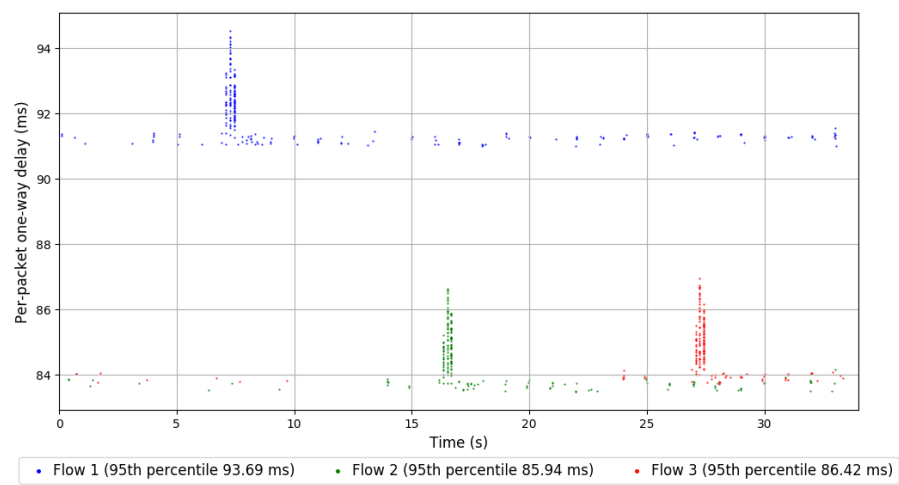
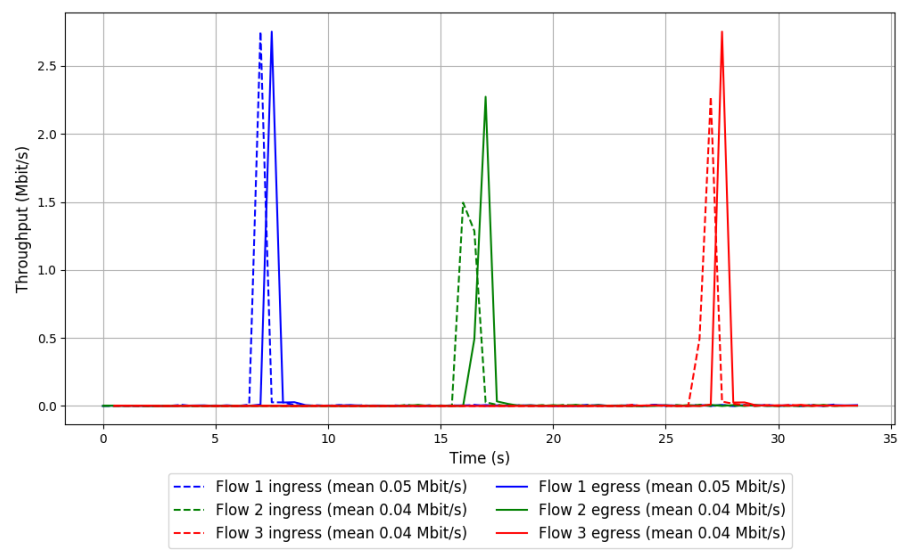
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 86.416 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-24 16:39:44

End at: 2018-05-24 16:40:14

Local clock offset: -3.036 ms

Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-05-24 17:26:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 83.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 83.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 82.882 ms

Loss rate: 0.00%

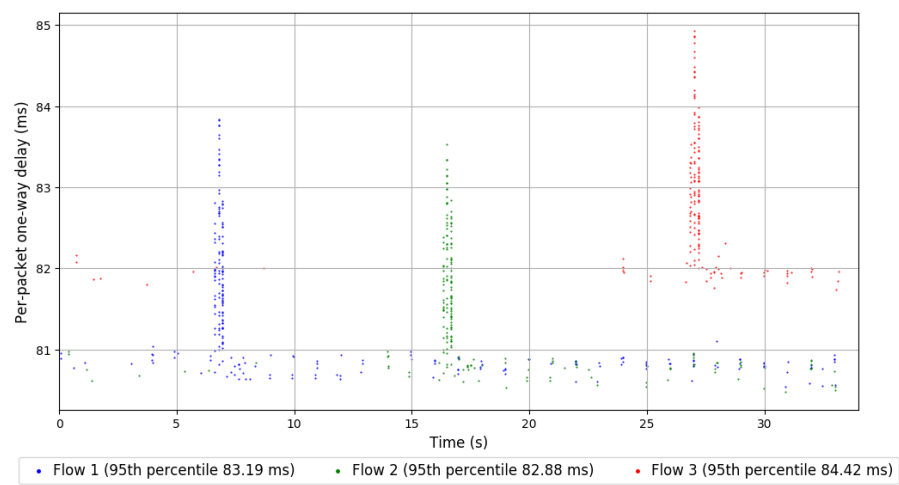
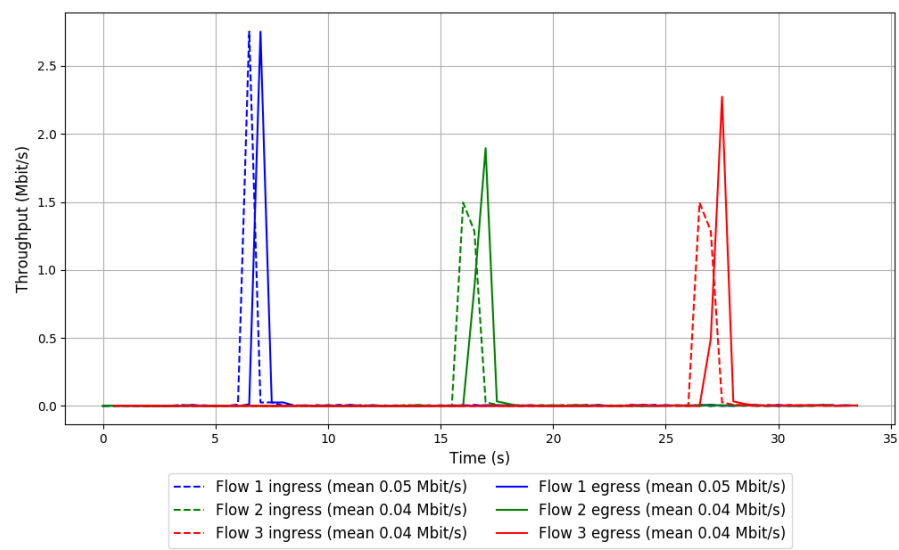
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 84.418 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 16:59:23

End at: 2018-05-24 16:59:53

Local clock offset: -2.955 ms

Remote clock offset: 7.389 ms

# Below is generated by plot.py at 2018-05-24 17:26:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 87.820 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 88.102 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 86.693 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 88.045 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

